

GenCore version 5.1.3
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OM protein - nucleic search, using frame_plus_p2n model

Run on: January 16, 2003, 06:36:16 ; Search time 46 Seconds

(without alignments)
1486.716 Million cell updates/sec

Title: US-09-817-199A-2

Perfect score: 1150

Sequence: 1 MTGPGAVATRDGEAPERSP.....FOIRDYVESOKKRSOCCSEF 223

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-DB-issued_Patents_NA -QFIX=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS-human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
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-NO_XLPXY -NO_MMAB -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued_Patents_NA.*
1: /cgn2_6/ptodata/1/ina/5A.COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B.COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A.COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B.COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PCTUS.COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1150	100.0	2612	4	US-09-484-970B-142
2	1140	99.1	875	4	US-09-075-454-10
3	731	63.6	1340	2	US-08-824-873-2
4	731	63.6	1340	3	US-09-198-184-2
5	470	40.9	925	2	US-08-916-901-4
6	470	40.9	925	4	US-09-154-602-4
7	448.5	39.0	639	4	US-09-399-913-66
8	385	33.5	970	3	US-08-888-077A-28
9	372	32.3	803	4	US-09-075-454-13
10	359	31.2	847	2	US-08-773-423-4
11	302.5	26.3	1175	2	US-08-773-423-6
12	296	25.7	820	3	US-08-741-411-6
13	294.5	25.6	1533	4	US-09-075-454-11
14	291	25.3	1172	4	US-09-075-454-8
15	284.5	24.7	848	3	US-08-741-411-2
16	279	24.3	1749	4	US-09-149-476-54
17	277	24.1	1255	2	US-08-766-551-6
18	265.5	23.1	607	2	US-08-429-964-85
19	265.5	23.1	4480	4	US-09-167-322-12
20	264.5	23.0	574	2	US-08-429-964-83
21	262.5	22.8	5775	1	US-08-306-691B-15
22	262.5	22.8	5775	5	PCT-US93-06251-29
23	258.5	22.5	890	3	US-08-741-411-4
24	256.5	22.3	1334	2	US-08-916-901-2
25	256.5	22.3	1334	4	US-09-154-602-2
26	253	22.0	615	1	US-08-247-946A-5
27	253	22.0	615	5	PCT-US95-06420-5
28	252.5	22.0	1098	2	US-08-948-616-6
29	252.5	22.0	1098	2	US-09-193-510-6
30	252.5	22.0	1098	4	US-09-368-402-6
31	251.5	21.9	1407	4	US-09-493-914-1
32	250	21.7	2436	1	US-08-306-691B-16
33	249.5	21.7	985	4	US-08-842-306B-1
34	249.5	21.7	985	4	US-08-838-973B-1
35	249.5	21.7	985	4	US-08-771-212A-1
36	249.5	21.7	3198	4	US-08-842-306B-48
37	249.5	21.7	3198	4	US-08-838-973B-48
38	248.5	21.6	603	4	US-09-325-932A-29
39	248.5	21.6	932	4	US-09-325-932A-28
40	245	21.3	570	4	US-08-884-866A-2
41	245	21.3	570	4	US-08-884-866A-11
42	243	21.1	914	2	US-08-773-423-2
43	241.5	21.0	702	3	US-08-842-976-2
44	241.5	21.0	702	3	US-09-213-397-2
45	241.5	21.0	702	3	US-09-416-489-2

ALIGNMENTS

RESULT 1

US-09-484-970B-142
; Sequence 142, Application US/09484970B
; Patent No. 6426186

; GENERAL INFORMATION:

; APPLICANT: Jones, Karen A.

; APPLICANT: Voikmuth, Wayne

; APPLICANT: Walker, Michael G.

; TITLE OF INVENTION: BONE REMODELING GENES

; FILE REFERENCE: PB-0014 US

; CURRENT APPLICATION NUMBER: US/09/484.970B

; CURRENT FILING DATE: 2000-01-18

; NUMBER OF SEQ ID NOS: 172

; SOFTWARE: PERL Program

; SEQ ID NO 142

; LENGTH: 2612

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

; OTHER INFORMATION: Incyte ID No. 6426186 412477.LCBI

US-09-484-970B-142

Alignment Scores:

Pred. No.: 3.4e-146 Length: 2612
Score: 1150.00 Matches: 223
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-09-817-199A-2 (1-223) x US-09-484-970B-142 (1-2612)

Oy 1 MetThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerPro 20

|||||

Db 16 ATGACGGGACGCCAGGGCGGCTTGCACCGGGATGCGAGGCCCGCCGAGCGTCCCG 75

QY 21 ProCysSerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyVal 40
Db 76 CCCTGAGTCCGAGTACGACCTCAGGGCAAGTGATGCTTCTGGAGACACAGGCGTC 135
QY 41 GlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIle 60
Db 136 GGCAGAACATGTTCTCTGATCCCAATCAAGACGGGCGCTTCTCTCCGGAACCTTCATA 195
QY 61 AlaThrValGlyLysPheAspPheArgAsnLysValValThrValAspGlyValArgValLys 80
Db 196 GCCACGCTCGGCATAGACTTCAGAGCAAGGTGCTGACTGTGGATGCGGAGAGTGAAG 255
QY 81 LeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyr 100
Db 256 CTCAGATCTGGACACCGCTGGCAGGAACGGTTCGGAAGCGCTCACCCATGCTTATTAC 315
QY 101 ArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsn 120
Db 316 AGAGATGCTCAGGCGCTTCTCTGCTGATGACATCACCAACAAATCTTCTTCGACAAAC 375
QY 121 IleArgAlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeu 140
Db 376 ATCAGGCGCTCGCTCACTGAGATTGATGATGATGATGATGATGATGATGATGATGATG 435
QY 141 LeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThr 160
Db 436 CTAGGCAACAAGCGGATATGACGCGGAAGAGTATCGGTTCCGAGACGAGAGACC 495
QY 161 LeuAlaArgGluTyrGlyValPropheLeuGluThrSerAlaLysThrGlyMetAsnVal 180
Db 496 TTGGCCAGGGAGTACGGTGTCTCTCTGAGACAGCCAGCCAGGACGCTGCAATGTG 555
QY 181 GluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAsp 200
Db 556 GAGTTAGCTTCTGCGCATCGCAAGGAAGTCAATACCGGCGCGGATCAGGCGGAT 615
QY 201 GluProSerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerCysCys 220
Db 616 GAGCCAGCTTCCAGATCCGAGACTATGATAGATCCAGAGAAGCGCTCCAGCTGCTGC 675
QY 221 SerPheMet 223
Db 676 TCCTTCATG 684

RESULT 2

US-09-075-454-10
; Sequence 10, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Batra, Sajeev
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/075,454
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA: 08/766,551
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerione, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 875 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: UCMCLST01
; CLONE: 1528559
; US-09-075-454-10

Alignment Scores:
Pred. No.: 1,34e-145 Length: 875
Score: 1140.00 Matches: 221
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.13% Indels: 0
DB: 4 Gaps: 0

US-09-817-199a-2 (1-223) x US-09-075-454-10 (1-875)

QY 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProCys 22
Db 3 GCGACGCGAGCGCGTTCACCCGCGGATGGCAGGCCCGCGAGCGCTCCCGCGCCGTC 62
QY 23 SerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLys 42
Db 63 AGTCCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGCGCTGGCAAA 122
QY 43 ThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThr 62
Db 123 ACATGTTCTCTGATCCAAATCAAGACGGGCGCTTCTGTCCGGAACCTTCATAGCCACC 182
QY 63 ValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGln 82
Db 183 GTCCGCATAGACTTCAGAAACAAGTGGTGACTGTGGATGGCGTGAGAGTGAAGCTGCAG 242
QY 83 IleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAsp 102
Db 243 ATCTGGGACACCGCTGGCAGGAACGGTTCGGAAGCGCTCACCCATGCTTATTACAGAGAT 302
QY 103 AlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArg 122
Db 303 GCTCAGCCCTTGGCTTCTGCTGTATGACATCCCAACAAATCTTCTTTCGACACATCAGG 362
QY 123 AlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGly 142
Db 363 GCCTGGCTCACTCAGATTTCATGATGCCAGAGGACGCTGGTGATCATGCTGTAGGC 422
QY 143 AsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAla 162
Db 423 AACAGGCGGATATGACGCGAAAGAGTATCCGTTCCGAAGACGAGAGACCTTGGCC 482
QY 163 ArgGluTyrGlyValPropheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeu 182
Db 483 AGGAGTACGGTGTCTCCCTTCCTGGAGACCGCCAGACTGGCATGATGTGGAGTTA 542
QY 183 AlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluPro 202

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Db 543 GCCTTTTCGGCCATCGCCAGCAACTGAATACCGGGCCGGCCATCAGCGGATGAGCCC 602
Qy 203 SerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCysSerPhe 222
Db 603 AGCTTCAGATCCGAGACTATGTAGATGCCAGAGAAGACGCTCCAGCTGCTGCTCTTC 662
Qy 223 Met 223
Db 663 ATG 665

RESULT 3
US-08-824-873-2
: Sequence 2, Application US/08824873
: Patent No. 5843717
: GENERAL INFORMATION:
: APPLICANT: Hillman, Jennifer L.
: APPLICANT: Guegler, Karl
: TITLE OF INVENTION: NOVEL RAB PROTEIN
: NUMBER OF SEQUENCES: 4
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Incyte Pharmaceuticals, Inc.
: STREET: 3174 Porter Drive
: CITY: Palo Alto
: STATE: CA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/824,873
: FILING DATE: Filed Herewith
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: REFERENCE/DOCKET NUMBER: PF-0240 US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1340 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: PANCNOT04
: CLONE: 738957
: US-08-824-873-2

Alignment Scores:
Pred No.: 1.34e-89 Length: 1340
Score: 731.00 Matches: 141
Percent Similarity: 86.73% Conservative: 29
Best Local Similarity: 71.94% Mismatches: 25
Query Match: 63.57% Indels: 2
DB: 2 Gaps: 0

US-09-817-199a-2 (1-223) x US-08-824-873-2 (1-1340)
Qy 26 TyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPhe 45
Db 22 TACGACGTCGCGCTTCAAGGTATGCTGCTGGGGGACCTGGGTGGGGAACACCTGCTG 81
Qy 46 Leu-IleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheLeuAlaThrValGlyI 65
Db 82 CTGGGTGGGATTCAAGGATGCTGCTTCTCGCGGGGACCTTCATCTCCACCGTAGC-AT 140
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Qy 65 eAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTyrAs 85
Db 141 TGACTTCGGGAACAAGTTCTGGAGGTGGATGCTGGAAGGTGAAGCTGCAAGATGTGGGA 200
Qy 85 pThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAl 105
Db 201 CACAGCTGGTCAGGAGCGGTTCCGAGGTGTACCATCCCTACTACCGGGATGCTCATGC 260
Qy 105 aLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrpLe 125
Db 261 TCTGCTGCTGCTACGATGTCACCAACAAAGCCCTCTTTGACAACATCCAGGCGTGGCT 320
Qy 125 uThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLysAl 145
Db 321 GACGAGATCCAGAGTACGCCAGCAGCAGTGGCGCTCATGTGCTGGGGACAAAGGT 380
Qy 145 aAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTy 165
Db 381 GGACTCTGCCCATGAGCGTGTGTGAAGAGGAGGACGGGAGAGCTGCCAAGGAGTA 440
Qy 165 rGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLe 185
Db 441 TGGACTGCCCTTCATGGAGACCGCCAGCAGCGGCTCAACGTGGACTTGGCGCTTCAC 500
Qy 185 uAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluProSerPheGl 205
Db 501 AGCCATAGCAAGGAGTTGAAGCAGCGCTCCATGAGGCTCCACCGAGCGCGCTTCGG 560
Qy 205 nIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
Db 561 GCTGCATGATTACGTTAAGAGGAGGCGTGAAGGCGGCTCGAGGGGCGCTCCTGCTGC 606

RESULT 4
US-09-198-184-2
: Sequence 2, Application US/09198184
: Patent No. 6010859
: GENERAL INFORMATION:
: APPLICANT: Hillman, Jennifer L.
: APPLICANT: Guegler, Karl
: TITLE OF INVENTION: NOVEL RAB PROTEIN
: NUMBER OF SEQUENCES: 4
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Incyte Pharmaceuticals, Inc.
: STREET: 3174 Porter Drive
: CITY: Palo Alto
: STATE: CA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/198,184
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/824,873
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: REFERENCE/DOCKET NUMBER: PF-0240 US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1340 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
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, ZIP: 94304
,
, COMPUTER READABLE FORM:
, MEDIUM TYPE: Diskette
, COMPUTER: IBM Compatible
, OPERATING SYSTEM: DOS
, SOFTWARE: FastEO for Windows Version 2.0
,
, CURRENT APPLICATION DATA:
, APPLICATION NUMBER: US/08/916,901
, FILING DATE: Filed Herewith
, PRIOR APPLICATION DATA:
, APPLICATION NUMBER:
, FILING DATE:
, ATTORNEY/AGENT INFORMATION:

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Thu Jan 16 16:15:56 2003

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 66
; LENGTH: 639
; TYPE: DNA
; ORGANISM: Rattus sp.
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(636)
US-09-399-913-66

Alignment Scores:
Pred. No.: 1,2e-51 Length: 639
Score: 448.50 Matches: 81
Percent Similarity: 72.4% Conservative: 40
Best Local Similarity: 48.50% Mismatches: 45
Query Match: 39.00% Indels: 1
DB: 4 Gaps: 1

US-09-817-199A-2 (1-223) x US-09-399-913-66 (1-639)

QY 25 SerTyrAspLeuThrGlyLysValMetLeuGlyAspThrGlyValGlyLysThrCys 44
Db 4 GCCTAGCCCTATCTCTCAAGTACATCATCGCGGACACAGGTGTGGTAAATCGTGC 63
QY 45 PheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGly 64
Db 64 TTATTGCTAGAGTTTACAGACAGAGGTTT--CAGCCGGTGCATGCACCTCACAATGTG 120
QY 65 IleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrp 84
Db 121 GTAGAGTTTGGTCTCGATGATACCACTGATGGGAAACAGATAAACTCCAGATCTGG 180
QY 85 AspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgspAlaGln 104
Db 181 GATACAGCAGGAGGAGTCTTCTTCCTATCACAGAGTTCATATTACAGAGTGCAGCG 240
QY 105 AlaLeuLeuLeuTyrAspIleThrAsnLysSerPheAspAsnIleArgAlaTrp 124
Db 241 GGGCTTTACTAGTATGATATATACAGGAGAGACACGTTCAACACCTTGACAACCTG 300
QY 125 LeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLys 144
Db 301 TTAGAAGACGCCGTCAGCATCCCAATTCACATGTCATCATGCTTATTGGAAATAA 360
QY 145 AlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGlu 164
Db 361 AGTACTTAGAATCTAGAGAGAGTGAAGAGAGAGAGAGTGAAGCTTTTGACACGAG 420
QY 165 TyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPhe 184
Db 421 CATGGACTTATCTTCATGGAACCTCTGCCAAGACTGCTTCTAATGTAGAGAGGCATTT 480
QY 185 LeuAlaIleAlaLysGluLeu 191
Db 481 ATTAACACAGCAAGAAAT 501

RESULT 8
US-08-888-077A-28
; Sequence 28, Application US/08888077A
; Patent No. 6020143
; GENERAL INFORMATION:
; APPLICANT: ST. GEORGE-HYSLOP, PETER H
; APPLICANT: ROMMENS, JOHANNA M
; APPLICANT: FRASER, PAUL E
; TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
; TO ALZHEIMER'S DISEASE AND USES THEREFOR.
; NUMBER OF INVENTION: 41
; CORRESPONDENCE ADDRESS:
; ADDRESS: LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK
; STREET: 600 SOUTH AVENUE WEST
; CITY: WESTFIELD
; STATE: NJ
; COUNTRY: USA

ZIP: 07090-1497
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/888,077A
; FILING DATE: 03-JUL-1997
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/592,541
; FILING DATE: 26-JAN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: PALISI, THOMAS M
; REGISTRATION NUMBER: 36,629
; REFERENCE/DOCKET NUMBER: SCHERING 3.0-017 CIP CIP IV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 654-5000
; TELEFAX: (908) 654-7866
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 970 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: 1..970
; OTHER INFORMATION: /note="Y2H9"
US-08-888-077A-28

Alignment Scores:
Pred. No.: 1,05e-42 Length: 970
Score: 385.00 Matches: 86
Percent Similarity: 57.87% Conservative: 39
Best Local Similarity: 39.81% Mismatches: 76
Query Match: 33.48% Indels: 16
DB: 3 Gaps: 4

US-09-817-199A-2 (1-223) x US-08-888-077A-28 (1-970)

QY 7 AlaValAlaThrArgAspGlyGluAlaProGluArgSerProProcysSerProSerTyr 26
Db 51 GCAATGGGACCCGCCGACGACGAG-----TAC 77
QY 27 AspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeu 46
Db 78 GACTACTCTTTAAAGTTGCTTATTGGAGATTCTGGTGTGGAAAGAGTAATCTCCTG 137
QY 47 IleGlnPheLysAspGlyAlaPhe---LeuSerGlyThrPheIleAlaThrValGlyIle 65
Db 138 TCTCGATTACTCGAAATGAGTTTAATCTGGAAGCAAG-----AGCACCATTTGGAGTA 191
QY 66 AspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrpAsp 85
Db 192 GAGTTTGCACAAAGAGCATCCAGGTGTATGGGAAAAACAATAAAGCCAGATATGGGAC 251
QY 86 ThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAla 105
Db 252 ACAGCAGGGCAAGCGATATCGAGCTATAACATCAGCATATTATCGTGAGCTGAGGT 311
QY 106 LeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrpLeu 125
Db 312 GCCTTATTGTTTATGACATTGCTAAACATCTCAATATGATAAATGTAGAGCGATGGCTG 371
QY 126 ThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLysAla 145
Db 372 AAGAAGCTAGAGATCATGCTGATGATAGTAACATTGTTATCATGCTTGTGGCAATAAGAGT 431
QY 146 AspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyr 165
Db 432 GATCTAGCTCATCTCAGGGCAGTCTCTACAGATGAAGCAAGAGCTTTTGCAGAAAGAAAT 491


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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/773,423
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0183 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 847 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: Consensus
; US-08-773-423-4
;
; Alignment Scores:
; Pred. No.: 2,92e-39 Length: 847
; Score: 359.00 Matches: 77
; Percent Similarity: 56.59% Conservative: 39
; Best Local Similarity: 37.56% Mismatches: 79
; Query Match: 31.22% Indels: 10
; DB: 2 Gaps: 2
;
; US-09-817-199a-2 (1-223) x US-08-773-423-4 (1-847)
;
; Qy 26 TyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPhe 45
; |||||
; 95 TATAACTTTGCTCAAGTGGTCTGATCGCGGAATCAGGTGTGGGAAGACCAACTA 154
;
; Qy 46 LeuLeuGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIle 65
; |||||
; 155 CTCCTCCGATTACCGCGCAATGAGTTC---AGCCACGACAGCCGCCACCATCGGGGTT 211
;
; Qy 66 AspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrpAsp 85
; |||||
; 212 GAGTCTCCACCCGACTGTGATGTTGGCACCCCTGCTGTCAAGGCTCAGATCTGGGAC 271
;
; Qy 86 ThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrArgAspAlaGlnAla 105
; |||||
; 272 ACAGCTGGCTGGAGCGGTACGAGCCATCACCTCGCGTACTATCGTGTGCGAGTGGG 331
;
; Qy 106 LeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTriPLeu 125
; |||||
; 332 GCCCTCTCTGGTGTGACCTTAACCAAGCACGACCATGCTGTGCTGGGACGATGCTG 391
;
; Qy 126 ThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLysAla 145
; |||||
; 392 AAGGAGCTCTATGACCATGCTGAAGCCACGATCGTCGTCATGCTCGTGGGTAACAAAGT 451
;
; Qy 146 AspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyr 165
; |||||
; 452 GACCTCAGCCAGGCGCGGGAAGTCCACCTGAGGAGCCGCAATGTTGCTGAAACAAAT 511
;
; Qy 166 GlyValProPheLeuGluTyrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeu 185
; |||||
; 512 GGACGTCTCTCTCTGGAGACCTTCACCCCTGGACTCTACCAATGTTGAGCTAGCTTTGAG 571
;
; Qy 186 AlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluPro----- 202
; |||||
; 572 ACTGTCCTGAAGAATACTTTTCGGAAGGTGTCGAAGCAGACAGACAGCATCGGACC 631
;
; Qy 203 -----SerPheGlnIleArgAspTyrValGluSerGlnLysLysArg 216
;
; Db 632 AATGCCATCACTCTGGCAGTGCACGAGTGGCCAGGNTGGACAGGAGCCCTGGCCCTGGGAGAGAGG 691
;
; Qy 217 SerSerCysCysSer 221
; |||||
; Db 692 GCCTGTTGCATCAGC 706
;
; RESULT 11
; US-08-773-423-6
; Sequence 6, Application US/08773423
; Patent No. 5869291
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Goli, Surya K.
; APPLICANT: Bandman, Olga
; TITLE OF INVENTION: NOVEL RAB PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/773,423
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0183 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1175 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: Consensus
; US-08-773-423-6
;
; Alignment Scores:
; Pred. No.: 2,45e-31 Length: 1175
; Score: 302.50 Matches: 73
; Percent Similarity: 53.54% Conservative: 33
; Best Local Similarity: 36.87% Mismatches: 79
; Query Match: 26.30% Indels: 13
; DB: 6 Gaps: 6
;
; US-09-817-199a-2 (1-223) x US-08-773-423-6 (1-1175)
;
; Qy 31 LysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuIleGlnPheLys 50
; |||||
; Db 111 AAGTAATTCCTCTGGAGATGGTGGAGATTCACCTTATGAACAGATATGTA 170
;
; Qy 51 AspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsnLys 70
; |||||
; Db 171 ACTAATAAGTTTGTATACCCAGCTCTTC---CATACAATAGTGTGTGAATTTTAAATAAA 227
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Qy 71 ValValThrValAspGlyValArgValLysLeuGlnIleTrpAspThrAlaGlyGlnGlu 90
Db 228 GATTGGAAGTGGATGCACATTTTACCATGCAGATTTGGGACACGGCAGGTCCAGAG 287
Qy 91 ArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeuTyr 110
Db 288 CGATTCGGAAGCCTGAGGACACCATTTTACAGAGGTTCTGACTGCTGCTGCTTACTTTT 347
Qy 111 AspileThrAsnLysSerPheAspAsnIleArgAlaTrpLeuThrGluIleHisGlu 130
Db 348 AGTGTCATGATTCACAAAGCTTCCAGCACTTAAGTAACTGGGAAGAAGATTCATATAT 407
Qy 131 TyrAlaGln-----ArgAspValValIleMetLeuLeuGlyAsnLysAlaAsp 146
Db 408 TATGCACATGTGAAGAGCCTGAGAGCTTCTCTTTTGATTTCTGGCTAACAAGATTGAC 467
Qy 147 MetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyrGly 166
Db 468 ATA---AGCGAAGCGGAGGTGTCTACAGAAGAGCCCAAGCTTGGTGCAGGGAACAAGGC 524
Qy 167 ---ValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeu 185
Db 525 GACTATCTTATTTTGAACAAGTGCARAAGATCCCAAGTGGCAGCAGCTTTTGAG 584
Qy 186 AlaIleAlaLysGluLeu-----LysTyrArgAlaGlyHisGlnAlaAspGluPro 202
Db 585 GAAGCGGCTTCGAAGAGTCTTGCTACCGAGGATAGGTACAGATCATTTGATTCACACACAC 644
Qy 203 SerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
Db 645 ACAGTCAATCTTCAC-----CGAAAGCCCAAGCCTAGCTCATCTTGTGTGT 689
RESULT 12
US-08-741-411-6
; Sequence 6, Application US/08741411
; Patent No. 6124116
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL RAB PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/741,411
; FILING DATE: Herewith
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0139 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 820 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
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; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY: Consensus
; CLONE: 741-411-6
US-08-741-411-6
Alignment Scores:
Pred. No.: 1,05e-30 Length: 820
Score: 296.00 Matches: 71
Percent Similarity: 49.52% Conservative: 32
Best Local Similarity: 34.13% Mismatches: 71
Query Match: 25.74% Indels: 34
DB: 3 Gaps: 4
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Qy 20 ProProCysSerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGly 39
Db 159 CCCAGGGCTGCCCCCAGCCAGCCCGTGTGTTCAAGCTGGTTCCTCTGGGAAGTGGCTCC 218
Qy 40 ValGlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPhe 59
Db 219 GTGGGTGCG----- 227
Qy 60 IleAlaThrValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgVal 79
Db 228 -----TTCTTCAAGAGGAGGTGGATGGTGGGCGCCACCTCTCTG 266
Qy 80 LysLeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyr 99
Db 267 AAGCTTGATCTGGGACACAGCTGGCCAGGAGAAGTACCACAGCGTCTGCCACCTCTAC 326
Qy 100 TyrArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAsp 119
Db 327 TTCAGGGGTGCCAACGCTGCTTCTGTGTACGACATCACACAGGAGGATTCCTCTCTC 386
Qy 120 AsnIleArgAlaTrpLeuThrGluIleHisGluTyrAlaGln---ArgAspValIle 138
Db 387 AAGCTCAGCAGTGGCTGAGGAGCCTGGAGGAGGAGTGCACCCAGGAAGTCTCTGTG 446
Qy 139 MetLeuLeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGly 158
Db 447 ATGCTGTTGGGCAACAAGACGCGCTCAGCCAGGAGGAGGAGTCCACCTTCCAGGAAGG 506
Qy 159 GluThrLeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMet 178
Db 507 AAGGAGTTTGCCGACAGCCAGAGTGTGTTTATGGAACCTTCGGCCAAACTCAACCCAC 566
Qy 179 AsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGln 198
Db 567 CAGGTGCGGAGGTGTTCATACAGTGGCCCAAGAGCTACTGCAGAGA----- 614
Qy 199 AlaAspGluProSerPheGlnIleArgAspTyrVal-----GluSerGln 213
Db 615 AGCCAGGAGGAGGCGCAGGCTCTACGGGGGGGATGCAGCTGTGGCTCTCAACAAGGGGCC 674
Qy 214 LysLysArgSerSerCysSer 221
Db 675 GCGAGGCGGCGCAAAATGCTGCGCC 698
RESULT 13
US-09-075-454-11
; Sequence 11, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, V. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Cugler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Eatra, Sajeev
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; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: KIDN005
; CLONE: 627565
; US-09-075-454-8

Alignment Scores:
Pred. No.:      8,98e-30      Length:      1172
Score:          291.00      Matches:      76
Percent Similarity: 53.78%      Conservative: 52
Best Local Similarity: 31.93%      Mismatches: 86
Query Match:      25.30%      Indels:      24
DB:               4          Gaps:          8

US-09-817-199a-2 (1-223) x US-09-075-454-8 (1-1172)

QY 2 ThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProPro 21
Db 105 ACGGGCAC-----AAGACTTCCACCCCGCGTCCACTCGCGCTGCAGGAGCACCGGA 158
QY 22 CysSerProSerTyrAspLeu--ThrGlyLysValMetLeuLeuGlyAspThrClyValG 41
Db 159 CAGCACCG---TGGGATTTAAGATCCCAAGGTTCATGTGGTGGGGGACCTGTGCGTGG 215
QY 41 lYlYsThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleA 61
Db 216 GGAAGACTTGCCTCATTAATAGGTTCTGCAAGACACCTTT---GATAAGAATTACAAGG 272
QY 61 lathrValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysL 81
Db 273 CCACCATTTGGAGTGGACTTCGAGATGAAGCATTTGAGGTGCTGGGCATTCCTTCAGTT 332
QY 81 euGlnIleTyrAspThrAlaGlyClnGluArgPheArgSerValThrHisAlaTyrTyrA 101
Db 333 TGCAGCTTTGGGATACCGCTGGGCGAGAGAGTTCAAATGCATTCGATCAACCTACTATA 392
QY 101 rGAspAlaGlnAlaLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnI 121
Db 393 GAGAGCTCAAGCCATCATCTATTCTTCAACCTGATGATGTCGCGATCTCGAACAATA 452
QY 121 leArgAlaTyrLeuThrGlu---IleHisGluTyrAlaGlnArgAspValIleMetL 140
Db 453 CCAGCAGTGGCTGGCGGATGCGCTGAAGGAGATGACCCCTTCCAGTGTGCTCTCTCC 512
QY 140 euLeuGlyAsnLysAlaAspMetSer-----SerGluArgValIleArgSerClnuAspG 158
Db 513 TTGTAGTTTCCAGAGAGATCTGATGACCCCTGCTCAGTATGCGCTGATGGAGAAAGCG 572
QY 158 lYlGluThrLeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyM 178
Db 573 CCCTCCAGGTGGCCAGGAGATGAAGCTCAGTACTGGCAGTCTCATCTCTCACTCGTG 632
QY 178 etAsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisG 198
Db 633 AGAATGTCGAGAAATTTCTTCTCGTGGCA---GCACCTGACCTTTGAGGCCAATGTGC 689
QY 198 lNAlaAsp-----GluProSerPheGlnIleArgAsp----- 208
Db 690 TGGCTGAGCTGGAGAAATCGGGGCTCGACGCAATGGGGATGTTGTCGCGATCAACAGTG 749
QY 209 -----TyrValGluSerGlnLysLysArgSerSerCysCys 220
Db 750 ATGACACCAACCTCTACTCTACCTGCCAGCAAGAGAGAGCCACATGTTGC 799

RESULT 15
US-08-741-411-2
; Sequence 2, Application US/08741411
; Patent No. 6124116
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL RAB PROTEINS
; NUMBER OF SEQUENCES: 12
```

```
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/741,411
; FILING DATE: Herewith
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0139 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 848 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY:
; CLONE: Consensus
; US-08-741-411-2

Alignment Scores:
Pred. No.:      4.1e-29      Length:      848
Score:          284.50      Matches:      60
Percent Similarity: 53.11%      Conservative: 34
Best Local Similarity: 33.90%      Mismatches: 74
Query Match:      24.74%      Indels:      9
DB:               3          Gaps:          2

US-09-817-199a-2 (1-223) x US-08-741-411-2 (1-848)

QY 37 AspThrGlyValGlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSer 56
Db 216 GACACTGGGTGGGAATCAAGCATCGTGTGCGATTGTTCAGGATCACTTT---GAC 272
QY 57 GlyThrPheIleAlaThrValGlyIleAspPheArgAsnLysValValThrValAspGly 76
Db 273 CACAACATCAGCCCTACTATTGGGGCATCTTTATGACCAAACTGTGCTTGTGGAAT 332
QY 77 ValArgValLysLeuGlnIleTyrAspThrAlaGlyGlnGluArgPheArgSerValThr 96
Db 333 GAACCTTCCAAAGTTCCTCATCTGCGACACTGCTGTCAGGAACGGTTTCATTTCATGCT 392
QY 97 HisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeuTyrAspIleThrAsnLysSer 116
Db 393 CCCATGTACTATCGAGGCTCAGCTGCTGATGATGATATATACCAACGAGAT 452
QY 117 SerPheAspAsnIleArgAlaTyrLeuThrGluIleHisGluTyrAlaGlnArgAspVal 136
Db 453 TCATTTTATACCTTGAAGAAATGGTCAAGGAGCTGAAGACATGTGTCAGAAACATTT 512
QY 137 ValIleMetLeuLeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGlu 156
Db 513 GTAATGCCCATCGCTGGAAACAAGTGGCACCTCTCAGATATTAGGAGGTTCCCTCGAAG 572
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QY 157 AspGlyGluThrLeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThr 176
Db 573 GATGCTAAGGAATACGCTGAATCCATAGTGCATCGTGGTTGAGACAAGTGCAGAAAAAT 632
QY 177 GlyMetAsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGly 196
Db 633 GCTATTAAATATCGAAGAGCTCTTTCAAGGAATCAGCCGCCAGATCCACCCTTGGACCCC 692
QY 197 HisGln-----AlaAspGluProSerPheGln 205
Db 693 CATGAAATGGAAACAATGGAACAATCAAAAGTTGAGAGCCCAACCATGCAA 743

Search completed: January 16, 2003, 06:38:41
Job time : 51 secs

GenCore version 5.1.3
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OM protein - nucleic search, using frame_plus_p2n model

Run on: January 16, 2003, 06:37:36 ; Search time 53 Seconds

(without alignments)
1876.012 Million cell updates/sec

Title: US-09-817-199A-2

Perfect score: 1150

Sequence: 1 MTCTPGAVATRDGEAPERSP.....FOIRDYVESQKKRSQCCSEF 223

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Xgapop 10.0 , Ygapext 0.5	
Fgapop 6.0 , Fgapext 7.0	
Delop 6.0 , Delext 7.0	

Searched: 393868 seqs, 222934149 residues

Total number of hits satisfying chosen parameters: 787736

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62
-TRANS=human40.cdi -LIST=45 -DOCLALIGN=200 -THR_SCORE=pct -THR_MAX=100
-THR_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NCM-ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=200000000 -USER=US09817199 -ACGN_1_1_24 -runat_13012003_120312_23055
-NCPU=6 -ICPU=3 -NO_XLPXY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Published Applications_NA: *

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3:	/cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
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11:	/cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
12:	/cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
13:	/cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
14:	/cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1150	100.0	2674	10	US-09-817-199A-1
2	1145	99.6	1116	10	US-09-794-257-13
3	1144	99.5	2623	9	US-09-764-868-71
4	1140	99.1	875	12	US-10-051-986-10

Pred. No.:	2.48e-137	Length:	2674
Score:	1150.00	Matches:	223
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	10	Gaps:	0

ALIGNMENTS

RESULT 1

US-09-817-199A-1
; Sequence 1, Application US/09817199A

; Patent No. US20020142380A1

; GENERAL INFORMATION:

; APPLICANT: SHAO, Wei et al.

; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE

; TITLE OF INVENTION: PROTEINS, AND USES THEREOF

; FILE REFERENCE: CLO01187

; CURRENT APPLICATION NUMBER: US/09/817.199A

; CURRENT FILING DATE: 2001-03-27

; NUMBER OF SEQ ID NOS: 25

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1

; LENGTH: 2674

; TYPE: DNA

; ORGANISM: Human

US-09-817-199A-1

Sequence 493, App
Sequence 15, Appl
Sequence 1811, Ap
Sequence 75, Appl
Sequence 879, App
Sequence 885, App
Sequence 894, App
Sequence 896, App
Sequence 529, App
Sequence 631, App
Sequence 9, Appl
Sequence 7, Appl
Sequence 836, App
Sequence 832, App
Sequence 91, Appl
Sequence 4, Appl
Sequence 66, Appl
Sequence 88, Appl
Sequence 1, Appl
Sequence 488, App
Sequence 507, App
Sequence 478, App
Sequence 487, App
Sequence 340, App
Sequence 487, App
Sequence 3393, Ap
Sequence 1461, Ap
Sequence 652, App
Sequence 2113, Ap
Sequence 1, Appl
Sequence 1426, Ap
Sequence 794, App
Sequence 563, App
Sequence 49, Appl
Sequence 64, Appl
Sequence 78, Appl
Sequence 499, App
Sequence 646, App
Sequence 12118, A
Sequence 374, App
Sequence 6, Appl

; LENGTH: 2623

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-764-868-71

Alignment Scores:

Pred. No.:	1,41e-136	Length:	2623
Score:	1144.00	Matches:	222
Percent Similarity:	99.55%	Conservative:	0
Best Local Similarity:	99.55%	Mismatches:	1
Query Match:	99.48%	Indels:	0
DB:	9	Gaps:	0

US-09-817-199A-2 (1-223) x US-09-764-868-71 (1-2623)

QY	1	MetThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerPro	20
DB	12	ATCAGGGCAGCAGCGCGCTTGCACCCGGATGGCAGGCCCGGAGCTCCCGG	71
QY	21	ProCysSerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyVal	40
DB	72	CCCTGCAGTCCGAGCTACGACCTCAGGGCAAGGTGATGCTTCTGGGAGACACAGGGTC	131
QY	41	GlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIle	60
DB	132	GGCAAAACATGTTTCTCTGATCCAATTCAAAGACGGGGCTTCTCTGTCGGAACCTTCATA	191
QY	61	AlaThrValGlyLysPheArgAsnLysValValThrValAspGlyValArgValLys	80
DB	192	GCACCCCTGGCATAGACTTCACACAAAGTGTGCTGCTGATGGCGTGAGAGTGAAG	251
QY	81	LeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyr	100
DB	252	CTCAGATCTGGGACACCGCTGGCAGGAACGGTTCGGAAGCTCACCCATGCTATTATC	311
QY	101	ArgAspAlaGlnAlaLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsn	120
DB	312	AGAGATGCTCAGGCTTGTCTGCTGTATGACATCACCAACAAATCTTCTTCGACAAC	371
QY	121	IleArgAlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeu	140
DB	372	ATCAGGCTTGGCTGCTGAGATTCATGATGATGCCAGAGGACGTGGTGATCATGCTG	431
QY	141	LeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThr	160
DB	432	CTAGGCAACAAGCGGATATCAGCAGCAAGAGTATGATCCGTCGGAAGACGAGAGACC	491
QY	161	LeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnVal	180
DB	492	TTGGCCAGGGAGTACGGTGTTCCTTCTCGAGACCAGCCCAAGACTGGCATGAATGTG	551
QY	181	GluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAsp	200
DB	552	GAGTAGCTTCTTGGCCATCGCCAGGAAGTAAATACCGCGCGGCATCAGCGCGAT	611
QY	201	GluProSerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerCysCys	220
DB	612	GAGCCAGCTTCCAGATCCGAGACTATGTAGAGTCCCAAGAAGCGCTCCAGCTGCTGC	671
QY	221	SerPheMet	223
DB	672	TCCTTCATG	680

RESULT 4

US-10-051-986-10

; Sequence 10, Application US/10051986

; Patent No. US20020146770A1

; GENERAL INFORMATION:

; APPLICANT: Hillman, Jennifer L.

; Tang, Y. Tom

; Lal, Preeti

; Guegler, Karl J.

; Corley, Neil C.

; Patterson, Chandra
; Batra, Sajeev
; Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/051,986
; FILING DATE: 15-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 875 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: UCMCL5T01
; CLONE: 1528559
; SEQUENCE DESCRIPTION: SEQ ID NO: 10 :
US-10-051-986-10

Alignment Scores:

Pred. No.:	9,11e-137	Length:	875
Score:	1140.00	Matches:	221
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	99.13%	Indels:	0
DB:	12	Gaps:	0

US-09-817-199A-2 (1-223) x US-10-051-986-10 (1-875)

QY	3	GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProCys	22
DB	3	GGCAGCGCAGCGCGCTTGCACCCGGATGGCAGGCCCGGAGCTCCCGCCCTGC	62
QY	23	SerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLys	42
DB	63	AGTCCGAGCTACGACCTCAGCGGCAAGGTGATGCTTCTGGGAGACACAGCGCTCGCAAA	122
QY	43	ThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThr	62
DB	123	ACATGTTTCTGTATCCCAATTCAAAGACGGGGCTTCTGTCCGGAACCTTCATAGCCACC	182
QY	63	ValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGln	82
DB	183	GTCCGCATACATTCAGAACAAAGGTGGTGACTGCTGGATGGCGTGAGAGTGAAGCTCAG	242
QY	83	IleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAsp	102
DB	243	ATCTGGGACACCGCTGGGCAAGACGGTTCGGAAGCGCTCAGCATGCTTATTACAGAGAT	302

Db 1 ATGCTTCTGGGAGACACAGCGCTGGCAAAACATGTTTCTCGATCCCAATCAAGACGGG 60
Qy 53 AlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsnLysValVal 72
Db 61 GCCTTCTGTCGGGAACCTTCATAGCCACCGTCGGCATAGACTTCAGAACACAGGTGGT 120
Qy 73 ThrValAspGlyValArgValLysLeuGlnIleTrpAspThrAlaGlyGlnGluArgPhe 92
Db 121 ACTGTGATGGCTGAGAGTGAAGCTCAGATCTGGACACCGCTGGCGAGGAACGGTTC 180
Qy 93 ArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspIle 112
Db 181 CGAAGCGCTACCCATGCTTTATCAGAGATGCTCAGGCGCTTGTCTTCCTGCTATGACATC 240
Qy 113 ThrAsnLysSerSerPheAspAsnIleArgAlaTrpLeuThrGluIleHisGluTyrAla 132
Db 241 ACCAACAAATCTTCTTCGACACATCAGGCGCTGGCTCACTGAGATTCATGATGCC 300
Qy 133 GlnArgAspValValIleMetLeuLeuGlyAsnLysAlaAspMetSerSerGluArgVal 152
Db 301 CAGAGGACCTGGTGTATCATCTGCTAGCAACAAAGCGGATATGAGCAGCAAGAGATG 360
Qy 153 IleArgSerGluAspGlyGluThrLeuAlaArgGluTyrGlyValProPheLeuGluThr 172
Db 361 ATCCGTTCCGAAGACGAGAGACCTTGGCCAGGAGTACGGTGTTCCTTCTCCCTGGAGAC 420
Qy 173 SerAlaLysThrGlyMetAsnValGluLeuAlaPheLeuAlaLysGluLeuLys 192
Db 421 AGCCCAAGACTGGCATGATGTGGAGTTAGCCTTCTGCGCATCGCCCAAGGAACCTGAAA 480
Qy 193 TyrArgAlaGlyHisGlnAlaAspGluProSerPheGlnIleArgAspTyrValGluSer 212
Db 481 TACCGGCGCGGCATCAGCGGATGAGCCAGCTTCCAGATCCGAGACTATGAGAGTCC 540
Qy 213 GlnLysLysArgSerSerCysCysSerPheMet 223
Db 541 CAGAAGAAGCGCTCCAGCTGCTGCTCTCATG 573

RESULT 7
US-09-867-550-1811
; Sequence 1811, Application US/09867550
; Patent No. US20020082206A1
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Mehraban, Fuad,
; APPLICANT: Conley, Pamela
; APPLICANT: Law, Debbie
; APPLICANT: Topper, James
; TITLE OF INVENTION: No. US20020082206A1 Polynucleotides from Atherogenic Cells and
; FILE REFERENCE: Thereby
; CURRENT APPLICATION NUMBER: US/09/867,550
; PRIOR FILING DATE: 2001-09-20
; PRIOR APPLICATION NUMBER: USSN 60/208,427
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 2125
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1811
; LENGTH: 447
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)
; OTHER INFORMATION: wherein n is one of a or t or c or g
US-09-867-550-1811

Alignment Scores:
Pred. No.: 2,08e-83 Length: 447
Score: 720.00 Matches: 138
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 62.61% Indels: 0

DB: 10 Gaps: 0
US-09-817-199a-2 (1-223) x US-09-867-550-1811 (1-447)
Qy 1 MetThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerPro 20
Db 34 ATCAGCGG3CACGCCAGCGCGCTTGGCCACCGGATGGCAGGCGCCCGAGCGCTCCCG 93
Qy 21 ProCysSerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyVal 40
Db 94 CCTTGCAT5TCGAGCTACGACCTCAGCGCAAGGTGATGCTTCTGGGAGACACAGGGGTC 153
Qy 41 GlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIle 60
Db 154 GGCAAAACATGTTTCTCGATCCCAATTCAGAGACGGGCGCTTCTCTGCGGAACCTTCATA 213
Qy 61 AlaThrValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLys 80
Db 214 GCCACCCCTCGCATAGACTTTCAGGAACAAGTGGTGACTGTGGATGGCGTGAGAGTGAAG 273
Qy 81 LeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyr 100
Db 274 CTGCAGATCTGGGACACCGCTGGCCAGAGACGGTTCCGAAGCGTCACCCATGCTTATTAC 333
Qy 101 ArgAspAlaGlnAlaLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 120
Db 334 AGAGATCTCAGGCGCTTCTCTCTGCTATGACATCACCACAATCTTCTTTCGACAAC 393
Qy 121 IleArgAlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIle 138
Db 394 ATCAGGCGCTGGCTCAGTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 447

RESULT 8
US-09-764-868-75
; Sequence 75, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PTZ32
; CURRENT APPLICATION NUMBER: US/09/764,868
; PRIOR FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 75
; LENGTH: 964
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (806)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (898)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (918)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (924)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (952)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (959)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-764-868-75

Alignment Scores:
Pred. No.: 3.19e-59 Length: 964
Score: 535.00 Matches: 98

Percent Similarity: 85.40% Conservative: 19
Best Local Similarity: 71.53% Mismatches: 20
Query Match: 46.52% Indels: 0
DB: 9 Gaps: 0

US-09-817-199a-2 (1-223) x US-09-764-868-75 (1-964)

```
QY 84 TTPAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAla 103
      |||
DB 3 TGGACACAGCTGGTCTCAGAGCGGTTCAGCTGTTACCCATGCTTACCGGATGCT 62
      |||
QY 104 GlnAlaLeuLeuLeuTyrAspIleThrAsnLysSerPheAspAsnIleArgAla 123
      |||
DB 63 CATGCTCTGCTGCTCTACGATGTCACCAACAGGCGCTCTTTGACAAATCCAGGCC 122
      |||
QY 124 TrpLeuThrGluIleHisGluTyrAlaGlnArgAspValIleMetLeuLeuGlyAsn 143
      |||
DB 123 TGGCTGACCGAGATCCAGCAGTACGCCACGACGCTGCTGCTGGGGAAC 182
      |||
QY 144 LysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArg 163
      |||
DB 183 AAGCTGGACTCTCCCATGAGCTGTGGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAG 242
      |||
QY 164 GluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAla 183
      |||
DB 243 GAGTATGGACTGCTTCTGAGAGACGAGCGCAAGACGGGCTCAACGTGGACTTGGCC 302
      |||
QY 184 PheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluProSer 203
      |||
DB 303 TTTACAGCCATACCAAGGAGTTGAAGCAGCGCTCCATGAAGCTCCCGAGCGCGCGCC 362
      |||
QY 204 PheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
      |||
DB 363 TTCGGCTGCTGATGATTACGTTAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 413
      |||
```

RESULT 9

```
US-09-834-975-879
; Sequence 879, Application US/09834975
; Patent No. US20020110815A1
; GENERAL INFORMATION:
; APPLICANT: Brown, Jeffrey
; APPLICANT: Bolt, Andrew
; APPLICANT: Van Huffel, Christophe
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS AND METHODS
; TITLE OF INVENTION: FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; TITLE OF INVENTION: OF HUMAN CANCERS
; FILE REFERENCE: MRI-016B
; CURRENT APPLICATION NUMBER: US/09/834,975
; CURRENT FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/197,538
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 1046
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 879
; LENGTH: 2497
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(2497)
; OTHER INFORMATION: n = A,T,C or G
US-09-834-975-879
```

Alignment Scores:

Pred. No.:	1,33e-55	Length:	2497
Score:	511.50	Matches:	106
Percent Similarity:	62.82%	Conservative:	41
Best Local Similarity:	45.30%	Mismatches:	68
Query Match:	44.48%	Indels:	19
DB:	10	Gaps:	4

US-09-817-199a-2 (1-223) x US-09-834-975-879 (1-2497)

```
QY 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProPro--- 21
      |||
DB 8 GGCAGGCC-----CCTCGCCCGCGGCCCTCCCGCTCTCTCCACCGCCT 55
      |||
QY 22 -----CysSerProSerTyrAspLeuThr 29
      |||
DB 56 CCTCTGGCTCCCGGTCTAGAGGGCGGAGCGAGAGATGGCGAAGACGTAGATTATCTC 115
      |||
QY 30 GlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuIleGlnPhe 49
      |||
DB 116 TTCAGCTCCTGCTGATCGGCGACTCGGGGTAGGCAAGACCTGCCTCTCTCCGCTTC 175
      |||
QY 50 LysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsn 69
      |||
DB 176 TCAGAGGAGCGCTTC---AACACCACTTCATCTCCACCATCGGAATGATTTAAAT 232
      |||
QY 70 LysValValThrValAspGlyValArgValLysLeuGlnIleTrpAspThrAlaGlyGln 89
      |||
DB 233 AGAAGCATAGAACTAGATGGAAGAAATAAGCTTCAGATATGGGACACACGCGGTCCAG 292
      |||
QY 90 GluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeu 109
      |||
DB 293 GAAAGATTCCGGAACAATCAGCACCGCTACTACAGAGGAGCCATGGCATATGCTGCTC 352
      |||
QY 110 TyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrpLeuThrGluIleHis 129
      |||
DB 353 TATGACATCACAAATGAAATCCCTTTGACAATATATAAATTTGGATCAGAAACATTGAA 412
      |||
QY 130 GluTyrAlaGlnArgAspValIleMetLeuLeuGlyAsnLysAlaAspMetSerSer 149
      |||
DB 413 GAGCATGCTCTTCGATGTGCAAGAAATGATCCTGGTGAACAATGTGATGATGATGAC 472
      |||
QY 150 GluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyrGlyValProPhe 169
      |||
DB 473 AAAAGACAAGTGTCAAAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 532
      |||
QY 170 LeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeuAlaIleAlaLys 189
      |||
DB 533 TTGGACACAAGCGCAAAATCCAGTGCATAATGTAGAGAGGCAATTTTACACTTGCACGA 592
      |||
QY 190 GluLeuLysTyrArgAlaGlyHisGlnAla---AspGluProSerPheGlnIleArgAsp 208
      |||
DB 593 GATATATATGACAAACTCAACAGAAATAATGAATGACAGCAATTCACGAGCAGGTGGA 652
      |||
QY 209 TyrValGluSerGlnLysLysArgSerSerCysSerPhe 222
      |||
DB 653 CCAGTGAATAATACAGAAAAACCGATCAAAAGAGAGCAGTTC 694
      |||
```

RESULT 10

```
US-09-834-975-885
; Sequence 885, Application US/09834975
; Patent No. US20020110815A1
; GENERAL INFORMATION:
; APPLICANT: Brown, Jeffrey
; APPLICANT: Bolt, Andrew
; APPLICANT: Van Huffel, Christophe
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS AND METHODS
; TITLE OF INVENTION: FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; TITLE OF INVENTION: OF HUMAN CANCERS
; FILE REFERENCE: MRI-016B
; CURRENT APPLICATION NUMBER: US/09/834,975
; CURRENT FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/197,538
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 1046
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 885
; LENGTH: 2497
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
```

; NAME/KEY: misc_feature
; LOCATION: (1)...(2497)
; OTHER INFORMATION: n = A,T,C or G
US-09-834-975-885

Alignment Scores: 1.33e-55 Length: 2497
Pred. No.: 511.50 Matches: 106
Score: 62.82% Conservative: 41
Percent Similarity: 45.30% Mismatches: 68
Best Local Similarity: 44.48% Indels: 19
Query Match: 10 Gaps: 4
DB: 10

US-09-817-199a-2 (1-223) x US-09-834-975-885 (1-2497)

```
Qy 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProPro--- 21
Db 8 GGCACGCC-----CCTCGCGCGCGCGCCCTCCCGCCCTCTCCACCGCCT 55
Qy 22 -----CysSerProSerTyrAspLeuThr 29
Db 56 CCTCTGGCTCCCGGTACAGGGCGGAGAGATGGCGAAGAGCTAGCATTTATCTC 115
Qy 30 GlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuIleGlnPhe 49
Db 116 TTCAAGCTCTGCTGATCGGCGACTCGGGGTAGGCAAGACCTGCCCTCTGTTCCGCTTC 175
Qy 50 LysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsn 69
Db 176 TCAGAGACGCCCTTC---AACACACACCTTCATCTCCACCATCGGAATTTGATTTTAA 232
Qy 70 LysValValThrValAspGlyValArgValLysLeuGlnIleTyrAspThrAlaGlyGln 89
Db 233 AGACGATAGACTAGATGGAAGAAATTAAGCTTCAGATATGGGACAGCGGGTCTAG 292
Qy 90 GluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeu 109
Db 293 GAAAGATTCGGAACATCAGCAGCGTACTACAGAGGAGCCATGATGATGATGATGATG 352
Qy 110 TyrAspIleThrAsnLysSerPheAspAsnIleArgAlaTyrGlyValProPhe 169
Db 353 TTGAGACAGCGGAAATCCAGTGAATGTAAGAGGAGGATTTTACACTTGCACGA 592
Qy 190 GluLeuLysTyrArgAlaGlyHisGlnAla---AspGluProSerPheGlnIleArgAsp 208
Db 593 GATATAATGACAAAACCTCAACAGAAACCCGATCAACAGAACCCAGCTTTC 694
```

RESULT 11

US-09-834-975-894
; Sequence 894, Application US/09834975
; Patent No. US20020110815A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Brown, Jeffrey
; APPLICANT: Bolt, Andrew
; APPLICANT: Van Huffel, Christophe
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS AND METHODS

; TITLE OF INVENTION: FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; FILE OF INVENTION: OF HUMAN CANCERS
; FILE REFERENCE: MRI-016B
; CURRENT APPLICATION NUMBER: US/09/834,975
; CURRENT FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/197,538
; NUMBER OF SEQ ID NOS: 1046
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 894
; LENGTH: 2497
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(2497)
; OTHER INFORMATION: n = A,T,C or G
US-09-834-975-894

Alignment Scores: 1.33e-55 Length: 2497
Pred. No.: 511.50 Matches: 106
Score: 62.82% Conservative: 41
Percent Similarity: 45.30% Mismatches: 68
Best Local Similarity: 44.48% Indels: 19
Query Match: 10 Gaps: 4
DB: 10

US-09-817-199a-2 (1-223) x US-09-834-975-894 (1-2497)

```
Qy 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProPro--- 21
Db 8 GGCACGCC-----CCTCGCGCGCGCGCCCTCCCGCCCTCTCCACCGCCT 55
Qy 22 -----CysSerProSerTyrAspLeuThr 29
Db 56 CCTCTGGCTCCCGGTACAGGGCGGAGAGATGGCGAAGAGCTAGCATTTATCTC 115
Qy 30 GlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuIleGlnPhe 49
Db 116 TTCAAGCTCTGCTGATCGGCGACTCGGGGTAGGCAAGACCTGCCCTCTGTTCCGCTTC 175
Qy 50 LysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsn 69
Db 176 TCAGAGACGCCCTTC---AACACACACCTTCATCTCCACCATCGGAATTTGATTTTAA 232
Qy 70 LysValValThrValAspGlyValArgValLysLeuGlnIleTyrAspThrAlaGlyGln 89
Db 233 AGACGATAGACTAGATGGAAGAAATTAAGCTTCAGATATGGGACAGCGGGTCTAG 292
Qy 90 GluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeu 109
Db 293 GAAAGATTCGGAACATCAGCAGCGTACTACAGAGGAGCCATGATGATGATGATGATG 352
Qy 110 TyrAspIleThrAsnLysSerPheAspAsnIleArgAlaTyrGlyValProPhe 129
Db 353 TATGACATCAAAATGAAATCCCTTTGACAATATTAATAATTTGATGATGATGATGATG 412
Qy 130 GluTyrAlaGlnArgAspValIleMetLeuLeuGlyAsnLysAlaAspMetSerSer 149
Db 413 GAGCATGCCCTCTTCCGATGTCGAAAGAAATGATCTGGGTAAACAATGATGATGATGATG 472
Qy 150 GluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyrGlyValProPhe 169
Db 473 AAAAGACAAGTGTCAAAGAAAGAGGAGGAGAGCTAGCAATTTACTATGGATTAATTC 532
Qy 170 LeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeuAlaIleAlaLys 189
Db 533 TTGAGACAGCGCAAAATCCAGTGAATGTAAGAGGAGGATTTTACACTTGCACGA 592
Qy 190 GluLeuLysTyrArgAlaGlyHisGlnAla---AspGluProSerPheGlnIleArgAsp 208
Db 593 GATATAATGACAAAACCTCAACAGAAATTAAGATGACAGCAATTCAGCAGGAGCAGGTGGA 652
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QY 209 TyrValGluSerGlnLysLysArgSerSerCysSerPhe 222
||||: |||
Db 653 CCAGTCAAAATACAGAAACCGATCAAAAGAGACGAGTTTC 694

RESULT 12

US-09-834-975-896
; Sequence 896, Application US/09834975
; Patent No. US20020110815A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Brown, Jeffrey
; APPLICANT: Bolt, Andrew
; APPLICANT: Van Huffel, Christophe
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS AND METHODS
; TITLE OF INVENTION: FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; TITLE OF INVENTION: OF HUMAN CANCERS
; FILE REFERENCE: MRI-0168
; CURRENT APPLICATION NUMBER: US/09/834,975
; CURRENT FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/197,538
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 1046
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 896
; LENGTH: 2497
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(2497)
; OTHER INFORMATION: n = A,T,C or G
US-09-834-975-896

Alignment Scores:
Pred. No.: 1,33e-55 Length: 2497
Score: 511.50 Matches: 106
Percent Similarity: 62.82% Conservative: 41
Best Local Similarity: 45.30% Mismatches: 68
Query Match: 44.48% Indels: 19
DB: 10 Gaps: 4

US-09-817-199a-2 (1-223) x US-09-834-975-896 (1-2497)

QY 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluLysArgSerProPro--- 21
||||||| |||
Db 8 GGCAGGCC-----CCTGCCCGCGCCCTCCCGCCTCTCTCCACCGCCT 55
QY 22 -----CysSerProSerTyrAspLeuThr 29
||| |||
Db 56 CCTCTGGCTCCCGCTCAGAGGCGCGGAGAGATGGCGAAGACGTACGATTATCTC 115
QY 30 GlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuLeuGlnPhe 49
||||: |||
Db 116 TTCAAGCTCTGTGATCGCGCTAGCGGGGTAGGCAAGACCTGCTTCGTTCCGCTTC 175
QY 50 LysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsn 69
||| |||
Db 176 TCAGAGGACCCCTC---AACACCACCTTCATCTCCACCATCGGAATGATTTTAAAT 232
QY 70 LysValValThrValAspGlyValArgValLysLeuGlnIleTrpAspThrAlaGlyGln 89
||| |||
Db 233 AGACGATAGAACTAGATGAAAGAAATTAAGCTTCAGATATGGGACACAGCGGTCAG 292
QY 90 GluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeu 109
||||| |||
Db 293 GAAAGATTCCGACAACTACAGACAGCGGTACTACAGAGGACGCATGGCAATGTCGGTC 352
QY 110 TyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrpLeuThrGluIleHis 129
||||| |||
Db 353 TATGACATCAACAATGAAATTCCTTGACAATATTAAATTTGGATCAGAAACATTGAA 412
QY 130 GluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLysAlaAspMetSer 149
||||| |||

Db 413 GAGCATGGCTCTTCCGATGTCGAAAGAATGATCCTGGGTAAACAATGTGATATGAATGAC 472
QY 150 GluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyrGlyValProPhe 169
||| |||
Db 473 AAAAGACAAGTCTCAAAAGAGAGGGGAGAGCTAGCAATTGACTATGGGATTAATTC 532
QY 170 LeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeuAlaIleAlaLys 189
||||| |||
Db 533 TTGGAGACAAGCGCAAAATCCAGTGCAAATGTAGAAGAGGCATTTTACACTTCACCA 592
QY 190 GluLeuLysTyrArgAlaGlyHisGlnAla---AspGluProSerPheGlnIleArgasp 208
||||: |||
Db 593 GATATAATGACAAACTCAACAGAAATGAATGACAGCAATTCAGCAGGACGAGTGGA 652
QY 209 TyrValGluSerGlnLysLysArgSerSerCysSerPhe 222
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Db 653 CCAGTCAAAATACAGAAACCGATCAAAAGAGACGAGTTTC 694

RESULT 13

US-09-770-445-529
; Sequence 529, Application US/09770445
; Patent No. US20020023281A1
; GENERAL INFORMATION:

; APPLICANT: Gorlach, Jorn
; APPLICANT: An, Yong-Qiang
; APPLICANT: Hamilton, Carol M.
; APPLICANT: Price, Jennifer L.
; APPLICANT: Raines, Tracy M.
; APPLICANT: Yu, Yang
; APPLICANT: Rameaka, Joshua G.
; APPLICANT: Page, Amy
; APPLICANT: Matthew, Abraham V.
; APPLICANT: Ledford, Brooke L.
; APPLICANT: Woessner, Jeffrey P.
; APPLICANT: Haas, William David
; APPLICANT: Garcia, Carlos A.
; APPLICANT: Kricker, Maja
; APPLICANT: Slader, Ted
; APPLICANT: Davis, Keith R.
; APPLICANT: Allen, Keith
; APPLICANT: Hoffman, Neil
; APPLICANT: Hurban, Patrick
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; TITLE OF INVENTION: thaliana
; FILE REFERENCE: 2023US (PARA-012PRV)
; CURRENT APPLICATION NUMBER: US/09/770,445
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: US 60/178,472
; PRIOR FILING DATE: 2000-01-27
; NUMBER OF SEQ ID NOS: 999
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 529
; LENGTH: 881
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-770-445-529

Alignment Scores:
Pred. No.: 1,08e-55 Length: 881
Score: 507.00 Matches: 95
Percent Similarity: 69.38% Conservative: 50
Best Local Similarity: 45.45% Mismatches: 56
Query Match: 44.09% Indels: 8
DB: 10 Gaps: 3

US-09-817-199a-2 (1-223) x US-09-770-445-529 (1-881)

QY 18 ArgSerProCysSerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAsp 37
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Db 48 AGATCAAAACCATGAATCTGAGTACGACTATCTTTTCAAGCTCTGCTTATCGGGAT 107
QY 38 ThrGlyValGlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGly 57
||||| |||

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Db 108 TCTGGCGTAGGCAAGTCTGTCTCTTTTGGATTTCTCTGATGATCTCTATGTAGAA--- 164
Qy 58 ThrPheileAlaThrValGlyIleAspPheArgAsnLysValValThrValAspGlyVal 77
Db 165 AGTTACATTAGCACTATTGGAGTGCATTTTAAATATAGGACTGGGAACAAGATGGCAAA 224
Qy 78 ArgValLysLeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHis 97
Db 225 ACAATTAAGCTCCAAATTTGGACACTGCTGTCTCAAGAACGGTTTCAGGACTATTACTAGC 284
Qy 98 AlaTyrTrpArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSer 117
Db 285 AGTTACTACCGTGGGGCACATGGAATATTATTCTCTACGATGTCACAGATGAAGAAAGC 344
Qy 118 PheAspAsnIleArgAlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValVal 137
Db 345 TTCARTATGTCAAGCAATGTTGAGTGAATGATGCTTATGCTAGTGACAATGTCAAC 404
Qy 138 IleMetLeuLeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGluAsp 157
Db 405 AAACCTCTGTGTGAAACAAGTCTGATCTTACTGAAAACAGAGCCATTCCTTATGAAC 464
Qy 158 GlyGluThrLeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGly 177
Db 465 GCCAAGGCTTTTGGCGATGAAATCGGATTCCTTTTATGGAGACTAGTGCAAAAGATGCT 524
Qy 178 MetAsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArg----- 194
Db 525 ACAACAGTAGAACAGGCTTTCATGGCAATGCTGCATCCATCAAGAGAGAAATGGCTAGC 584
Qy 195 -----AlaGlyHisGlnAlaAspGluProSerPheGlnIleArgAspTyrValGluSer 212
Db 585 CAACCAAGCTGGGAATAATGCAAGACCAACCGACCGTGCAGATCAGAGGACACCTGTGCA 644
Qy 213 GlnLysLysArgSerSerCysCysSer 221
Db 645 CAGAAG-----AACGGCTGCTGCTCA 665

RESULT 14
US-09-925-300-631
; Sequence 631, Application US/09925300
; Patent No. US20020151861A1
; GENERAL INFORMATION:
; APPLICANT: Craig Rosen,
; APPLICANT: Steve Ruben
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 631
; LENGTH: 1537
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (5)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-925-300-631
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Alignment Scores:
Pred. No.: 3,28e-55 Length: 1537
Score: 506.00 Matches: 104
Percent Similarity: 66.20% Conservative: 37
Best Local Similarity: 48.83% Mismatches: 64
Query Match: 44.00% Indels: 8
DB: 10 Gaps: 3
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US-09-817-199a-2 (1-223) x US-09-925-300-631 (1-1537)
Qy 13 GlyGluAlaProGluArgSer--ProProCysSerProSerTyrAspLeuThrGlyLysV 32
Db 507 GGCAGAGAGCCGAGCCGCTCTCCCAATTCGCGAAGAACAGCTAGCACCTGCTTTTCAAGC 566
Qy 32 alMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuIleGlnPheLysAspG 52
Db 567 TGCTCTCGATCGGGATTCGAGTGGGAAGACCTGGTCTCTTTTCGCTTTTCGGATG 626
Qy 52 lyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsnLysValV 72
Db 627 ATGCTTC--AATACTACCTTTATTTCACCATAGGAATAGACTTCAAGATCAAAACAG 683
Qy 72 alThrValAspGlyValArgValLysLeuGlnIleTrpAspThrAlaGlyGlnGluArgP 92
Db 684 TTGAATTACAAGAAAGATCAAGCTACAGATATGGATACAGCAGCCAGGAGCCAT 743
Qy 92 heArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspI 112
Db 744 TTCACACCATCACAACTCTCTACTACAGAGCGCAATGGGTATCATGCTAGTATATGACA 803
Qy 112 leThrAsnLysSerSerPheAspAsnIleArgAlaTrpLeuThrGluIleHisGluTyrA 132
Db 804 TCACCAATGGTAAAAAGTTTTCGAAACATCAGCAAAATGCTTAGAAACATAGATGAGCATG 863
Qy 132 laGlnArgAspValIleMetLeuLeuGlyAsnLysAlaAspMetSerSerGluArgV 152
Db 864 CCAATGAAGATGTGGAAGAATGTACTAGGAACAACTGTGATATGGACGACAAAGAG 923
Qy 152 alIleArgSerGluAspGlyThrLeuAlaArgGluTyrGlyValProPheLeuGluT 172
Db 924 TTGTACCTAAAGGAAAGGAGACAGATTCGAGGAGCATGGTATTAGGTTTTTGTGACA 983
Qy 172 hrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeu 192
Db 984 CTAGTGCAAAAGCAAAATATAAATCATCGAAAAGGGCTTCCTCAGCTTAGCTGAAGATATCC 1043
Qy 192 yTyrArgAlaGlyHisGlnAlaAspGluProSerPheGlnIleArgAspTyrValGluS 212
Db 1044 TTCGAAGAGCC-----CCTGTAAAGAGCCCAACAGTGAANAATGTAGATATCAGCAGTG 1097
Qy 212 er-----GlnLysLysArgSerSerCysCys 220
Db 1098 GAGGAGGCGTGACAGCGCTGGAAGAGAGCAATGCTGC 1132

RESULT 15
US-09-794-257-9
; Sequence 9, Application US/09794257
; Patent No. US20020009804A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020009804A1e1
; FILE REFERENCE: Human G-Proteins
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 624
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-794-257-9

Alignment Scores:
Pred. No.: 3,8e-55 Length: 624
Score: 501.00 Matches: 98
Percent Similarity: 69.35% Conservative: 40
Best Local Similarity: 49.25% Mismatches: 59
Query Match: 43.57% Indels: 2
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DB:	10	Gaps:	2
US-09-817-199A-2	(1-223) x US-09-794-257-9	(1-624)	
Qy	25 SerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCys	44	
Db	10 ACGTACGATTATCTCTCAAGCTCCCTGCTGATCGCGCACTCGGGGTAGCGCAAGACCTCC	69	
Qy	45 PheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleLeaThrValGly	64	
Db	70 CTCCTGTTCCGCTTCTCAGAGGACGCGCTTC--AACACCACCTTCATCTCCACCATCGGA	126	
Qy	65 IleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrp	84	
Db	127 ATTGATTTTAAATTAGACGATAGAACTAGATGGAAAGAAATAATTAAGCTTCAGATATGG	186	
Qy	85 AspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGln	104	
Db	187 GACACACGGGTGAGNAAGATTCCGAACAATCACCAGACGGTACTACAGAGGAGCCATG	246	
Qy	105 AlaLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrp	124	
Db	247 GGCATTATGTGGTCTATGACATCACAATGAAAAATCCCTTTGACAAATATTAAAAATTGG	306	
Qy	125 LeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLys	144	
Db	307 ATCAGAAACATTGAAGAGCATGGCTCTCCGATGTCGAAGAAGATGATCTGGGTAAACAA	366	
Qy	145 AlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGlu	164	
Db	367 TGTGATATGATGACAAGAAGACAAGTGTCAAAGAAGAGGGGAGAGCTAGCAATTGAC	426	
Qy	165 TyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPhe	184	
Db	427 TATGGATTAAATCTTTGGAGACAAGCGCAAAATCCAGTGCAATGTAGAAGAGGCATT	486	
Qy	185 LeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAla--AspGluProSer	203	
Db	487 TTTACATTCGCGAGATATGATGACAAACTCAACAGAAAAATGAATGACAGCAATTCA	546	
Qy	204 PheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSerCysSerPhe	222	
Db	547 GCAGGACGAGTGCACAGTGAATAATACAGAAACCGATCAAGAGACGACCATTC	603	

Search completed: January 16, 2003, 07:29:01
Job time : 58 secs

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: January 16, 2003, 04:27:25 ; Search time 71 Seconds
(without alignments)
11550.052 Million cell updates/sec

Title: US-09-817-199A-1
Perfect score: 2674
Sequence: 1 ttccgctgcggcgccgact.....aaaaaaaaaaaaaaaaa 2674

Scoring table: IDENTITY_NUC
Gapop 10.0 , Capext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/1/ina/5B-COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A-COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B-COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PCTUS-COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	873	32.6	875	4	US-09-075-454-10
3	292.6	10.9	1340	2	US-08-824-873-2
4	292.6	10.9	1340	3	US-09-198-184-2
5	193.4	7.2	99500	4	US-09-798-096-10
6	193.2	7.2	87350	3	US-08-781-891-79
7	193.2	7.2	87543	4	US-09-791-211-3
8	192.8	7.2	8453	4	US-09-167-681-45
9	192.4	7.2	112132	4	US-09-741-150-3
10	192.2	7.2	6678	3	US-08-816-617A-1
11	192.2	7.2	9301	4	US-09-449-2180-18
12	192.2	7.2	35060	3	US-08-814-095-7
13	192.2	7.2	98844	4	US-09-791-211-10
14	191.4	7.2	29629	4	US-09-729-995-3
15	190.8	7.1	6769	1	US-08-480-784-20
16	190.8	7.1	6769	1	US-08-483-553-20
17	190.8	7.1	6769	1	US-08-487-002-20
18	190.8	7.1	6769	1	US-08-483-554B-20
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20	190.8	7.1	6769	4	US-08-850-727-20
21	190.8	7.1	6769	5	PCT-US95-10203-20
22	190.8	7.1	6769	5	PCT-US95-10203-20
23	190.8	7.1	6769	5	PCT-US95-10220-20
24	190.4	7.1	45546	4	US-09-146-053-6
25	190	7.1	45716	4	US-08-965-048-5
26	190	7.1	45989	4	US-08-965-048-6
27	189	7.1	14581	4	US-08-520-373D-4

28	189	7.1	22481	4	US-08-367-841A-43	Sequence 43, Appl
29	189	7.1	22481	5	PCT-US95-07201-43	Sequence 43, Appl
30	189	7.1	22484	4	US-09-875-223-2	Sequence 2, Appl
31	189	7.1	55827	4	US-09-813-133A-3	Sequence 3, Appl
32	189	7.1	99500	4	US-09-798-096-10	Sequence 10, Appl
33	188.4	7.0	36651	4	US-09-738-894A-3	Sequence 3, Appl
34	188.4	7.0	59065	4	US-09-813-817-3	Sequence 3, Appl
35	188.4	7.0	59065	4	US-09-798-197-3	Sequence 3, Appl
36	187.8	7.0	50000	4	US-09-146-053-3	Sequence 3, Appl
37	187.5	7.0	8133	4	US-09-659-791A-10	Sequence 10, Appl
38	187	7.0	3867	4	US-09-347-114A-81	Sequence 81, Appl
39	187	7.0	43950	4	US-09-735-934A-3	Sequence 3, Appl
40	186.6	7.0	8353	3	US-08-611-587-1	Sequence 1, Appl
41	186.4	7.0	1043	4	US-09-165-868-4	Sequence 4, Appl
42	186.4	7.0	3694	4	US-09-232-200-46	Sequence 46, Appl
43	186.4	7.0	3694	4	US-09-232-197-46	Sequence 46, Appl
44	186.4	7.0	3694	4	US-09-232-201-46	Sequence 46, Appl
45	186.4	7.0	3704	4	US-09-232-200-24	Sequence 24, Appl

ALIGNMENTS

RESULT 1
US-09-484-970B-142
Sequence 142, Application US/09484970B
Patent No. 6426186
GENERAL INFORMATION:
APPLICANT: Jones, Karen A.
APPLICANT: Voikmuth, Wayne
APPLICANT: Walker, Michael G.
TITLE OF INVENTION: BONE REMODELING GENES
FILE REFERENCE: PB-0014 US
CURRENT APPLICATION NUMBER: US/09/484, 970B
CURRENT FILING DATE: 2000-01-18
NUMBER OF SEQ ID NOS: 172
SOFTWARE: PERL Program
SEQ ID NO 142
LENGTH: 2612
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. 6426186 412477.1CB1
US-09-484-970B-142

Query Match		97.5%	Score 2607.8;	DB 4;	Length 2612;
Best Local Similarity		99.9%	Pred. No. 0;		
Matches 2609;		Conservative	0;	Mismatches	2; Indels 0; Gaps 0;
Qy	27	CTCTCGTCCAGGACATGACGGGACGCGCCAGCGCCGTTGCCACCCGGGATGGCGAGCC	86		
Db	1	CTCTCGTCCAGGACATGACGGGACGCGCCAGCGCCGTTGCCACCCGGGATGGCGAGCC	60		
Qy	87	CCGAGGCGCTCCCGCCCTCGAGTCCGAGCTACGACCTCAGCGGCAAGGTGATGCTTCTG	146		
Db	61	CCGAGGCGCTCCCGCCCTCGAGTCCGAGCTACGACCTCAGCGGCAAGGTGATGCTTCTG	120		
Qy	147	GGAGACACAGCGCTCGGCAAAACATGTTCTGTATCCAAATCAAGACGGGCTTCTG	206		
Db	121	GGAGACACAGCGCTCGGCAAAACATGTTCTGTATCCAAATCAAGACGGGCTTCTG	180		
Qy	207	TCCGGAACCTTCATAGCCACCGTCGGCATAGACTTCAGAACAGGTGCTGCTGCTGAT	266		
Db	181	TCCGGAACCTTCATAGCCACCGTCGGCATAGACTTCAGAACAGGTGCTGCTGCTGAT	240		
Qy	267	GGCTGAGAGTGAAGCTGCAGATCTGGACACCGCTGGCAGGACCGTTCCGAAGCTC	326		
Db	241	GGCTGAGAGTGAAGCTGCAGATCTGGACACCGCTGGCAGGACCGTTCCGAAGCTC	300		
Qy	327	ACCATGCTTATTACAGAGATGCTCAGGCGCTTGTCTGTATGACATCACCACAAA	386		
Db	301	ACCATGCTTATTACAGAGATGCTCAGGCGCTTGTCTGTATGACATCACCACAAA	360		

QY 387 TCCTCTTTGACAAATCATAGGGCTTGGCTCAGTCTAGATCATGAGTATGCCCCAGAGGAC 446
DB 361 TCCTCTTTGACAAATCATAGGGCTTGGCTCAGTCTAGATCATGAGTATGCCCCAGAGGAC 420
QY 447 GTGGTGATCATGTCTGTAGCAACAGGGCGGATATGAGCAGCAAAAGAGTGCCTTCC 506
DB 421 GTGGTGATCATGTCTGTAGCAACAGGGCGGATATGAGCAGCAAAAGAGTGCCTTCC 480
QY 507 GAAGCGGAGAGACCTTGGCCAGGGAGTACGGTGTTCCTTCCCTGGAGACAGCGCAAG 566
DB 481 GAAGCGGAGAGACCTTGGCCAGGGAGTACGGTGTTCCTTCCCTGGAGACAGCGCAAG 540
QY 567 ACTGGCATGAATGTGAGTTAGCTTTCTGGCCATCCCAAGGAACCTGAAATACCGGGCC 626
DB 541 ACTGGCATGAATGTGAGTTAGCTTTCTGGCCATCCCAAGGAACCTGAAATACCGGGCC 600
QY 627 GGGCATCAGGGGATGAGCCAGCTTCCAGATCCGAGACTATGTAGATCCCAAGAGAG 686
DB 601 GGGCATCAGGGGATGAGCCAGCTTCCAGATCCGAGACTATGTAGATCCCAAGAGAG 660
QY 687 CGCTCAGCTGCTTCCCTTCATGTGAATCCCAAGGGGAGAGAGGCTCTGGAGGCA 746
DB 661 CGCTCAGCTGCTTCCCTTCATGTGAATCCCAAGGGGAGAGAGGCTCTGGAGGCA 720
QY 747 CACAGGATGAGCTTCCCTTCCAGGCTTGGCTTATTCGAAGAGGCTGAGCAATGGG 806
DB 721 CACAGGATGAGCTTCCCTTCCAGGCTTGGCTTATTCGAAGAGGCTGAGCAATGGG 780
QY 807 GAGAAAGATGAGGACTCAGTCACAGCGCTTCCCTAGCAGGAGGCTATACTCCAAGTCC 866
DB 781 GAGAAAGATGAGGACTCAGTCACAGCGCTTCCCTAGCAGGAGGCTATACTCCAAGTCC 840
QY 867 TACTTGAGTTCTCGGCTCTCCCGATCCACAGGAGGTTAAACACTTAGCTTTTATT 926
DB 841 TACTTGAGTTCTCGGCTCTCCCGATCCACAGGAGGTTAAACACTTAGCTTTTATT 900
QY 927 TTAATAGTACATAATTTAATACCAAAAAGCGCCCTGGATCCCAAAAACCGAGGCTGG 986
DB 901 TTAATAGTACATAATTTAATACCAAAAAGCGCCCTGGATCCCAAAAACCGAGGCTGG 960
QY 987 GAGCTAGTGGCCCTTTTGCTTTCTAGGACTTGGGGGCGGCGCTCCCTTAAGCATAA 1046
DB 961 GAGCTAGTGGCCCTTTTGCTTTCTAGGACTTGGGGGCGGCGCTCCCTTAAGCATAA 1020
QY 1047 CAAAGGTGGTGTGCTCAGCTCAGCCCCAGGGACACAGATGCACCTTTGGGGGTGAGGG 1106
DB 1021 CAAAGGTGGTGTGCTCAGCTCAGCCCCAGGGACACAGATGCACCTTTGGGGGTGAGGG 1080
QY 1107 CAGGTAAATGACTCCATCGCACCTCAGTTCAGCTGGACAGAGGCTCAGGTGACCCAGCC 1166
DB 1081 CAGGTAAATGACTCCATCGCACCTCAGTTCAGCTGGACAGAGGCTCAGGTGACCCAGCC 1140
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DB 1141 TTCAGTCTCCGCTCTCAGAGGCTTATCTTCGCCCATCTCCCAAAATAGTGGGCC 1200
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DB 1261 AGGACAAAGGGGACAGAGTAGGTCTAGCTGGCTATCTCTGGCTTACTTAACACCCCCCT 1320
QY 1347 GGAGGATGCCCCCTTTCTCCAGCACACAGACATTTGGGGACCTTGGAAATATGGTTC 1406
DB 1321 GGAGGATGCCCCCTTTCTCCAGCACACAGACATTTGGGGACCTTGGAAATATGGTTC 1380
QY 1407 CAGGCTCCTGCTCTGAGCTTCAGATCCCTGGGGAGGCCCTCCCGCCCTGAATCCCTG 1466
DB 1381 CAGGCTCCTGCTCTGAGCTTCAGATCCCTGGGGAGGCCCTCCCGCCCTGAATCCCTG 1440

QY 1467 GCTTAGCTACCTTCCTGCTGCGACCTTAAACCTCAGGTCAGAACTAGGAAAAGAGTT 1526
DB 1441 GCTTAGCTACCTTCCTGCTGCGCTGTGCACCTTAAACCTCAGGTCAGAACTAGGAAAAGAGTT 1500
QY 1527 TTGTTTTTATTTTTTGAATGGAGTCTGTTCTGTGCGCCAGGCTGAGTGAGTAGTG 1586
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DB 1561 CAATCTCCGCTCACTACAACTCCACTCCCTGGGGCTCAAGCGATCCTCCACCTCAGCC 1620
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DB 1801 AGATGTGTCTTATCCCACTCTTTGGCAGGCTGAGCTCCACAGGCGATTTCTCAAGC 1860
QY 1887 AGCTGAAGTGTTCAGCCCTCTCGGTTAGAGCCAGATAGAGAAATCCCTTCTCTAGG 1946
DB 1861 AGCTGAAGTGTTCAGCCCTCTCGGTTAGAGCCAGATAGAGAAATCCCTTCTCTAGG 1920
QY 1947 TTTGGAATGTGTGTGAAAAAAGAGAAATCCCTGCTCTGGAGCTGGTGGGAGACAA 2006
DB 1921 TTTGGAATGTGTGTGAAAAAAGAGAAATCCCTGCTCTGGAGCTGGTGGGAGACAA 1980
QY 2007 GATTAGCAAACTCCCTCGACATGTATCCCTTTGAGCCCCAAGCTCTGCTCTCCCTGA 2066
DB 1981 GATTAGCAAACTCCCTCGACATGTATCCCTTTGAGCCCCAAGCTCTGCTCTCCCTGA 2040
QY 2067 CCACCATGCCCCCTTCTTTAACTTCTCAACAGATACAGGCTTAACTGCTTTACCT 2126
DB 2041 CCACCATGCCCCCTTCTTTAACTTCTCAACAGATACAGGCTTAACTGCTTTACCT 2100
QY 2127 CCCTCTCTACTGAGTCAAGTTAGGTGGAGGCTCACCCTATTCAGGTTAAACCAATG 2186
DB 2101 CCCTCTCTACTGAGTCAAGTTAGGTGGAGGCTCACCCTATTCAGGTTAAACCAATG 2160
QY 2187 CAATATGAGTAAACAAAGTCAATGTGGGTATGTCTGGGTAGAGAGAGGGTAGCAAGTT 2246
DB 2161 CAATATGAGTAAACAAAGTCAATGTGGGTATGTCTGGGTAGAGAGAGGGTAGCAAGTT 2220
QY 2247 CATGTCTCTCTTGTTCACATATCTCCAAAGCTCTGATCCCTGCCATGGGAGTGGAC 2306
DB 2221 CATGTCTCTCTTGTTCACATATCTCCAAAGCTCCGATCCCTGCCATGGGAGTGGAC 2280
QY 2307 AGAAACATCAGGTCTGACCTGCAGGCTCTTTACTGACGCTCTGCCGCTGGAGGG 2366
DB 2281 AGAAACATCAGGTCTGACCTGCAGGCTCTTTACTGACGCTCTGCCGCTGGAGGG 2340
QY 2367 GAGAGGGGAGGAAGTATGCGCTGACATTTCTGAGGCTACTGCAATTTGCTTTCAAG 2426
DB 2341 GAGAGGGGAGGAAGTATGCGCTGACATTTCTGAGGCTACTGCAATTTGCTTTCAAG 2400
QY 2427 GCAGAAATCTGCTCTCAGCAGTCCAGGCTCCAGTTGGGCCGATAGAGAGTCTCTCC 2486
DB 2401 GCAGAAATCTGCTCTCAGCAGTCCAGGCTCCAGTTGGGCCGATAGAGAGTCTCTCC 2460
QY 2487 GTGGCTCTCTCAGGAGAGAGGAGGCTGACATTTGCCAGTCTCTTCTCTGGGGCCCA 2546
DB 2461 GTGGCTCTCTCAGGAGAGAGGAGGCTGACATTTGCCAGTCTCTTCTCTGGGGCCCA 2520
QY 2547 AGGAGGTTGAGAGAGATCCCAATCCCATAGACAGCTCTGGGCTCTTGGCATTTGAGTTT 2606

Db 2521 AGCAGGTTTCAGAGATCCAAATCCCATAGACAGCTCTGGGCTCTTGCATTTGAGTTT 2580
QY 2607 TCAGAATAAAGTGCAGTATTTTGGAAAGCA 2637
Db 2581 TCAGAATAAAGTGCAGTATTTTGGAAAGCA 2611

RESULT 2
US-09-075-454-10
; Sequence 10, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Batra, Sajeev
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/075,454
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 875 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: UCMCL5T01
; CLONE: 1528559
US-09-075-454-10

Query Match 32.6%; Score 873; DB 4; Length 875;
Best Local Similarity 100.0%; Pred. No. 1.5e-186;
Matches 873; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 46 CGGCGACGCCAGCGCGGTTGCCACCGGATGGCGAGGCCCGCCGAGCGCTCCCGCCCT 105
Db 1 CGGCGACGCCAGCGCGGTTGCCACCGGATGGCGAGGCCCGCCGAGCGCTCCCGCCCT 60
QY 106 GCAGTCCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCGTCGGCA 165
Db 61 GCAGTCCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCGTCGGCA 120

QY 166 AAACATGTTTCTGTATCCAAATTCAGAGACGGGCGCTTCTGTCTCGGAACCTTCATAGCCA 225
Db 121 AAACATGTTTCTGTATCCAAATTCAGAGACGGGCGCTTCTGTCTCGGAACCTTCATAGCCA 180
QY 226 CCCTCGGCATAGACTTCAGGAACAAGGTGGTGTACTGTGGATGGCGGTAGAGTGAAGCTGC 285
Db 181 CCCTCGGCATAGACTTCAGGAACAAGGTGGTGTACTGTGGATGGCGGTAGAGTGAAGCTGC 240
QY 286 AGATCTGGGACACCGCTGGGCGAGGAACGGTTCCGAGAGCGTCCACCCATGCTTATACAGAG 345
Db 241 AGATCTGGGACACCGCTGGGCGAGGAACGGTTCCGAGAGCGTCCACCCATGCTTATACAGAG 300
QY 346 ATGCTCAGGCGCTTGTCTGTATGACATCACCAACAAATCTTCTTTTCGACAAATCA 405
Db 301 ATGCTCAGGCGCTTGTCTGTATGACATCACCAACAAATCTTCTTTTCGACAAATCA 360
QY 406 GGGCCTGGCTCACTGAGATTCATGATATGCCCAGAGGACGGTGGTGTATCATCTCTGCTAG 465
Db 361 GGGCCTGGCTCACTGAGATTCATGATATGCCCAGAGGACGGTGGTGTATCATCTCTGCTAG 420
QY 466 GCAACAAGGCGGATATGAGCAGCGAAAGAGTATCGTTCGGAAGACGGAGACCTTGG 525
Db 421 GCAACAAGGCGGATATGAGCAGCGAAAGAGTATCGTTCGGAAGACGGAGACCTTGG 480
QY 526 CCAGGAGTACGGTGTTCCTTCTTGAGACACGAGCGCCAGACTGGCATGAATGTGAGT 585
Db 481 CCAGGAGTACGGTGTTCCTTCTTGAGACACGAGCGCCAGACTGGCATGAATGTGAGT 540
QY 586 TAGCCTTTCTGGCCATCGCCAAAGAACTGAAATACCGGGCGGGCATCAGCGGATGAGC 645
Db 541 TAGCCTTTCTGGCCATCGCCAAAGAACTGAAATACCGGGCGGGCATCAGCGGATGAGC 600
QY 646 CCAGCTTCCAGATCCGAGACTATGTAGTCCAGAGAGAGCGCTCCAGTGTGCTCT 705
Db 601 CCAGCTTCCAGATCCGAGACTATGTAGTCCAGAGAGAGCGCTCCAGTGTGCTCT 660
QY 706 TCATGTGAATCCCGAGGCGGAGAGAGGCTCTGGAGGCACACAGATCGAGCTTCCC 765
Db 661 TCATGTGAATCCCGAGGCGGAGAGAGGCTCTGGAGGCACACAGATCGAGCTTCCC 720
QY 766 CTCTCCAGGCGCTGGCTTATTCGAAGAGGCTGAGCCCAATGGGGAGAAAGATGGAGGACTCA 825
Db 721 CTCTCCAGGCGCTGGCTTATTCGAAGAGGCTGAGCCCAATGGGGAGAAAGATGGAGGACTCA 780
QY 826 CTGCACAGCGCTTCTTAGCAGGAGCTACTACTCCAACTCTTCTGAGTTCCTGCGGTC 885
Db 781 CTGCACAGCGCTTCTTAGCAGGAGCTACTACTCCAACTCTTCTGAGTTCCTGCGGTC 840
QY 886 TCCCGCATCCACAGGAGGGTAAACACTTAG 918
Db 841 TCCCGCATCCACAGGAGGGTAAACACTTAG 873

RESULT 3
US-08-824-873-2
; Sequence 2, Application US/08824873
; Patent No. 5843717
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

;; SOFTWARE: FastSeq for Windows Version 2.0

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/08/824,873

;; FILING DATE: Filed Herewith

;; CLASSIFICATION: 435

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER:

;; FILING DATE:

;; ATTORNEY/AGENT INFORMATION:

;; NAME: Billings, Lucy J.

;; REGISTRATION NUMBER: 36,749

;; REFERENCE/DOCKET NUMBER: PF-0240 US

;; TELECOMMUNICATION INFORMATION:

;; TELEPHONE: 415-855-0555

;; TELEFAX: 415-845-4166

;; INFORMATION FOR SEQ ID NO: 2:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 1340 base pairs

;; TYPE: nucleic acid

;; STRANDEDNESS: single

;; TOPOLOGY: linear

;; IMMEDIATE SOURCE:

;; LIBRARY: PANCNOT04

;; CLONE: 738957

;; US-08-824-873-2

Query Match 10.9%; Score 292.6; DB 2; Length 1340;

Best Local Similarity 70.9%; Pred. No. 1.4e-56;

Matches 416; Conservative 0; Mismatches 169; Indels 2; Gaps 2;

QY 116 CTACGACCTCAGCGCAAGGTGCTCTGGAGACACACAGCGTCGGCAAAACATGTTT 175

Db 21 CTACGACCTCAGCGCTTCAAGGTGCTCTGGAGACACACAGCGTCGGCAAAACATGTTT 80

QY 176 CTTGA-TCCAAATCAAAGACGGGCTTCTCTCGGAAACCTTCATAGCCACCGTCGGCA 234

Db 81 GCTGGTGGATTCAGGATGTTCTTCTCGGAGACCTTCATCTCCACCGT-AGCA 139

QY 235 TAGACTCAGGAACAGGTGGTGTGCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 294

Db 140 TTGACTTCCGGAACAAAGTCTGGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 199

QY 295 ACACCGCTGGGACGAGGAGTCTCCGAGGAGTCCACCATGCTTATTACAGAGATGCTCAGG 354

Db 200 ACACAGCTGTCAGGACGCTCCGAGGAGTCTCCGAGGAGTCCACCATGCTTATTACAGAGATGCTCAGG 259

QY 355 CTTGCTGTGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 414

Db 260 CTCTGCTGTGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 319

QY 415 TCACGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGG 474

Db 320 TGACCGAGATCCAGGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGG 379

QY 475 CGGATATGACGACGAGGAGTATGCTTCCGAGGAGTATGCTTCCGAGGAGTATGCTTCCGAGGAGT 534

Db 380 TGGACTCTGCCCCATGAGCTGTGGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 439

QY 535 ACGGTGTTCCCTTCTCGGAGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 594

Db 440 ATGGACTGCTCTTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 499

QY 595 TGGCCATCGCAAGGAGTCAAAATACCGGGCCGGGATCAGGCGGATCAGGCGGATCAGGCGGATCAGG 654

Db 500 CAGCCATAGCAAGGAGTTCAGGAGGAGTTCAGGAGGAGTTCAGGAGGAGTTCAGGAGGAGTTCAGG 559

QY 655 AGATCCGAGACTATGATAGATCCCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 701

Db 560 GGCTGCATGATTACGTTAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 606

RESULT 4

US-09-198-184-2

;; Sequence 2, Application US/09198184

;; Patent No. 6010859

;; GENERAL INFORMATION:

;; APPLICANT: Hillman, Jennifer L.

;; APPLICANT: Guegler, Karl

;; TITLE OF INVENTION: NOVEL RAB PROTEIN

;; NUMBER OF SEQUENCES: 4

;; CORRESPONDENCE ADDRESS:

;; ADDRESSEE: Incyte Pharmaceuticals, Inc.

;; STREET: 3174 Porter Drive

;; CITY: Palo Alto

;; STATE: CA

;; COUNTRY: USA

;; ZIP: 94304

;; COMPUTER READABLE FORM:

;; MEDIUM TYPE: Diskette

;; COMPUTER: IBM Compatible

;; OPERATING SYSTEM: DOS

;; SOFTWARE: FastSeq for Windows Version 2.0

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/09/198,184

;; FILING DATE:

;; CLASSIFICATION:

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER: 08/824,873

;; FILING DATE:

;; ATTORNEY/AGENT INFORMATION:

;; NAME: Billings, Lucy J.

;; REGISTRATION NUMBER: 36,749

;; REFERENCE/DOCKET NUMBER: PF-0240 US

;; TELECOMMUNICATION INFORMATION:

;; TELEPHONE: 415-855-0555

;; TELEFAX: 415-845-4166

;; INFORMATION FOR SEQ ID NO: 2:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 1340 base pairs

;; TYPE: nucleic acid

;; STRANDEDNESS: single

;; TOPOLOGY: linear

;; IMMEDIATE SOURCE:

;; LIBRARY: PANCNOT04

;; CLONE: 738957

;; US-09-198-184-2

Query Match 10.9%; Score 292.6; DB 3; Length 1340;

Best Local Similarity 70.9%; Pred. No. 1.4e-56;

Matches 416; Conservative 0; Mismatches 169; Indels 2; Gaps 2;

QY 116 CTACGACCTCAGCGCAAGGTGATGCTTCTGGAGACACACAGCGTCGGCAAAACATGTTT 175

Db 21 CTACGACCTCAGCGCTTCAAGGTGATGCTGGTGGGAGCTCGGGTGGGGAAGACCTGTCT 80

QY 176 CTTGA-TCCAAATCAAAGACGGGCTTCTCTCGGAAACCTTCATAGCCACCGTCGGCA 234

Db 81 GCTGGTGGATTCAGGATGATGCTTCTCGGAGGAGCTTCATCTCCACCGT-AGCA 139

QY 235 TAGACTTCAGGAACAGGTGGTGTGATGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 294

Db 140 TTGACTTCCGGAACAAAGTCTGGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 199

QY 295 ACACCGCTGGGACGAGGAGTCCGAGGAGTCCACCATGCTTATTACAGAGATGCTCAGG 354

Db 200 ACACAGCTGGTCCAGGAGGAGTCCGAGGAGTCCACCATGCTTATTACAGAGATGCTCAGG 259

QY 355 CTTGCTGTGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 414

Db 260 CTCTGCTGTGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 319

QY 415 TCACGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGG 474

Db 320 TGACCGAGATCCAGGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGGATTCAGG 379

QY 475 CGGATATGACGACGAGGAGTATGCTTCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 534


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; LENGTH: 87543
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 7421
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 7427
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; NAME/KEY: unsure
; LOCATION: 11609
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; OTHER INFORMATION: unknown
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; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 86336
; OTHER INFORMATION: unknown
; OTHER INFORMATION:
; US-09-791-211-3

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Query Match 7.2%; Score 193.2; DB 4; Length 87543;
 Best Local Similarity 79.9%; Pred. NO. 9.9e-34;
 Matches 239; Conservative 0; Mismatches 59; Indels 1; Gaps 1;

QY 1525 TTTTGTATTTATTTTGAATGGAGTCTCGTTCTGCTGCCAGGCTGAGGTGACAGTAG 1584
Db 42476 TTTTGTATTTTATTTTNGAGACAGAGTCTCGCTCTCTCTCCAGGCTGAAGTGCAGTGG 42417
QY 1585 TGCANCTCCGGCTACACTACACCTCCACTCCCTGGGGCTCAAGGATCTCCACCTCAG 1644
Db 42416 CACAANTCTTGACACTACTGCAACCTCCACCTCCT-GGGTTCAAGCAATTCCTCGCCTCAG 42358
QY 1645 CCGCCGAAGTAGTGGGACTATAGGTGTGTACCATCACACTGGCTAAATTTTGTATTTT 1704
Db 42357 CTCCTGAATAGCTGGGATTACAGGCACCAACACACAGCCGCTGAATTTTGTACTTTT 42298
QY 1705 TTGTAGACACAGGTTTTCGCATTTGCCAGGCTGGTCTTGAATTCCTGAGCTCAAGCA 1764
Db 42297 TAGTAAACCGGAGTTTCATCATGTGTGGCAGGCTGTGTGAACCTCCTGACCTCAAGTG 42238
QY 1765 ACCTGCGGCTCGGCTCCCAAGTACTGGGATTACACCGCAAGGACCACTGCCAG 1823
Db 42237 ATCTGCTGCTCGGCTCCCAAGTCTGGGATTACAGGCGTGAGCCACCATGCCAG 42179
RESULT 8
US-09-167-681-45/c
; Sequence 45, Application US/09167681A
; Patent No. 6265561
; GENERAL INFORMATION:
; APPLICANT: Weinshilboum, M.D., Richard M.
; APPLICANT: Raftogiannis, Rebecca B.
; APPLICANT: Wood, Thomas C.
; APPLICANT: Ottensness, Diane M.
; TITLE OF INVENTION: SULFOTRANSFERASE SEQUENCE VARIANTS
; FILE REFERENCE: 07039/118001
; CURRENT APPLICATION NUMBER: US/09/167,681A
; CURRENT FILING DATE: 1998-10-07
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 8447
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (4361)...(4507)
; NAME/KEY: CDS
; LOCATION: (4612)...(4737)
; NAME/KEY: CDS
; LOCATION: (4827)...(4925)
; NAME/KEY: CDS
; LOCATION: (6322)...(6447)
; NAME/KEY: CDS
; LOCATION: (6543)...(6638)
; NAME/KEY: CDS
; LOCATION: (7137)...(7316)
; NAME/KEY: CDS
; LOCATION: (7439)...(7553)
US-09-167-681-45

Query Match 7.2%; Score 192.8; DB 4; Length 8453;
Best Local Similarity 75.3%; Pred. No. 5.7e-34;
Matches 253; Conservative 0; Mismatches 82; Indels 1; Gaps 1;

QY 1525 TTTTGTATTTTATTTTGAATGGAGTCTCGTTCTGCTGCCAGGCTGAGGTGACAGTAG 1584
Db 2562 TTTTCTCTTTTATGTGAGATGGAGACTCGCTCTCTGCCAGGCTGCAATGACAGTAG 2503
QY 1585 TGCANCTCCGGCTACACTACACCTCCACTCCCTGGGGCTCAAGCGATCTCCACCTCAG 1644
Db 2502 CACGATCTCCGCTACACTGTAACCTCCCTCCCT-GGGTTCAAGCGAATTCCTGCTCCTCAG 2444
QY 1645 CCGCCGAAGTAGTGGGACTATAGGTGTGTACCATCACACTGGCTAAATTTTGTATTTT 1704
Db 2443 CTTCCCGAGTAGTGGGATTACAGGTGTCACACCAACCATCCGCTTAATTTTGTATTTT 2384

QY 1705 TTGTAGACACAGGTTTTCGCCATGTTGCCAGGCTGTTGAATTCCTGAGCTCAAGCA 1764
Db 2383 TAGTAGACACGGGTTTTCGCCATGTTGCCAGGCTGTTCTCAAACTCCTGAGCTCAATG 2324
QY 1765 ACCTGCGGGCTCGGCTCCCAAGTACTGGGATTACACGAGAGGACCACTGCCCAGG 1824
Db 2323 ATCCGCGGCTCGGCTCCCAAGTCTGAGATTACAGGATGAGCCACCATGCTCTGGC 2284
QY 1825 CTAGATGTGCTATATCCCAATCTTTTGGCAGGCATG 1860
Db 2263 CGACAAGCTTCTCTAATTGACCCAGGCAAGGGAGG 2228

RESULT 9

US-09-741-150-3/c
; Sequence 3, Application US/09741150
; Patent No. 6436689
; GENERAL INFORMATION:
; APPLICANT: GUEGLER, Karl et al
; TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND
; FILE REFERENCE: CL000968
; CURRENT APPLICATION NUMBER: US/09/741,150
; CURRENT FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 112132
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(112132)
; OTHER INFORMATION: n = A,T,C or G
US-09-741-150-3

Query Match 7.2%; Score 192.4; DB 4; Length 112132;
Best Local Similarity 78.4%; Pred. No. 1.6e-33;
Matches 243; Conservative 0; Mismatches 66; Indels 1; Gaps 1;

QY 1526 TTTTGTATTTTATTTTGAATGGAGTCTCGTTCTGCTGCCAGGCTGAGGTGACAGTAGT 1585
Db 97233 TTTTATTTTATTTTGTAGACAGGGTCTGTCTGTCCACCCAGGCTGGAATGCAAGTGGC 97174
QY 1586 GCAATCTCCGCTACTACAACTCCACTCCCTGGGGCTCAAGCGATCCTCCACCTCAGC 1645
Db 97173 GTGATCTTGGCTCATTTGCAACCTCC-GTCTCCCAAGGCTCAAGTGATCCTCCACCTCAGC 97115
QY 1646 CGCCGAAGTAGCTGGGACTATAGGTGTACCATCACACCTGGCTAATTTTGTATTTT 1705
Db 97114 CTCCAAGTAGTGTGACTACAGGCATAAGCCACCAACCCAGCACTAATTTTGTATTTT 97055
QY 1706 TGTAGACACAGGTTTTCGCCATGTTGCCAGGCTGGTCTTTGAATTCCTGAGCTCAAGCAA 1765
Db 97054 TGTAGAGAAGGATTTTGGCGTGTGCGCCAGGCTGGTCTTGAACCTCCACAGCTCAAGCAA 96995
QY 1766 CTGCGCGGCTCGGCTCCCAAGTACTGGGATTACAGGAGAGGACCACTGCCAGGC 1825
Db 96994 TCCACCTGCTCGACCTCCCAAGTGTGGGATTACAGGATGAGCCACCGCCCGCCAGCC 96935
QY 1826 TAGATGTGTC 1835
Db 96934 TGGATATTC 96925

RESULT 10

US-08-816-617A-1
; Sequence 1, Application US/08816617A
; Patent No. 6022741
; GENERAL INFORMATION:
; APPLICANT: Ting, Jenny P.-Y.
; APPLICANT: Piskurich, Janet

```

; TITLE OF INVENTION: No. 6022741el Regulatory Genetic DNA that
; NUMBER OF INVENTION: Regulates the Class II Transactivator (CIITA)
; TITLE OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. 6022741th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,617A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 5470-143
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-420-2200
; TELEFAX: 919-881-3175
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6678 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-816-617A-1

Query Match 7.28; Score 192.2; DB 3; Length 6678;
Best Local Similarity 77.8%; Pred. No. 7.2e-34;
Matches 245; Conservative 0; Mismatches 68; Indels 2; Gaps 1;

Qy 1525 TTTTGTGTTTTTATTTTTTGAATGGAGTCTCGTTCTGTGCGCCAGGCTGAGGTGCAGTAG 1584
Db 3043 TTTTGTGTTTTTATTTTTTGAATAGAGTCTCGTCTGAAGCCAGGCTGGAGTGCAGTGG 3102

Qy 1585 TGCATCTCCGCTCACT--ACAACCTCCACATCCCTCGGGGCTCAAGCGATCCTCCACCTC 1642
Db 3103 TGTGATCTCGGCTCACITGCAACCTCCACCTCCCGCCAGGTTCAAGCAATTCTCCTGCCTC 3162

Qy 1643 AGCGCGCGAAGTAGCTGGGAGCATATAGTGTGTACCATCACACTGGCVAATTTTGTATT 1702
Db 3163 AGCCTCCCAAGTAAGTGGGATATACAGGCGTGCACCCACACACCTTGGATTAATTTTCTATT 3222

Qy 1703 TTTTGTACACACAGGTTTCGCCATGTTGCCAGGCTGGTCTTGTAATTCCTGAGCTCAAG 1762
Db 3223 TTTAGTAGAGAGGGTTTTCACATGTTGGCCAGGCTGTTTCGAATTCCTGAGCTCAGG 3282

Qy 1763 CAACCTCGCGGCTCGGCTCCCAAGTACTGGGATTACAGCGAAGGCGACCATGCCCA 1822
Db 3283 TGATCCGCGCGCTCAGTCTCCTRAAGTTTGAGATTACAGCGGTGAGCCACACGCCG 3342

Qy 1823 GGCTAGATGTGCTTT 1837
Db 3343 GCCTGCGAGGAGTCTTT 3357

RESULT 11
US-09-449-218D-18
; Sequence 18, Application US/09449218D
; Patent No. 6395511
; GENERAL INFORMATION:
; APPLICANT: Brunkow, Mary E.
; APPLICANT: Galas, David J.
; APPLICANT: Kovacevich, Brian
; APPLICANT: Mulligan, John T.

```

```
; NAME: Montgomery, Ilene N.
; REGISTRATION NUMBER: 38,972
; REFERENCE/DOCKET NUMBER: 2391.00066
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (248) 539-5050
; TELEFAX: (248) 539-5055
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 35060 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "Cosmid including ACHE
; DESCRIPTION: promotor, ACHE gene and ARS gene"
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: 7q22
; FEATURE:
; NAME/KEY: promotor
; LOCATION: 4089..22464
; OTHER INFORMATION: /function= "ACHE Promotor"
; OTHER INFORMATION: /standard_name= "ACHE Promotor"
; FEATURE:
; NAME/KEY: exon
; LOCATION: 22465..22537
; OTHER INFORMATION: /function= "non-translated"
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 1
; FEATURE:
; NAME/KEY: exon
; LOCATION: 24090..25177
; IDENTIFICATION METHOD: experimental
; OTHER INFORMATION: /function= "(translation start:
; OTHER INFORMATION: 24110)"
; OTHER INFORMATION: /evidence= EXPERIMENTAL
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 2
; FEATURE:
; NAME/KEY: exon
; LOCATION: 25524..26009
; IDENTIFICATION METHOD: experimental
; OTHER INFORMATION: /evidence= EXPERIMENTAL
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 3
; FEATURE:
; NAME/KEY: exon
; LOCATION: 27005..27274
; IDENTIFICATION METHOD: experimental
; OTHER INFORMATION: /evidence= EXPERIMENTAL
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 4
; FEATURE:
; NAME/KEY: exon
; LOCATION: 27255..28007
; IDENTIFICATION METHOD: experimental
; OTHER INFORMATION: /evidence= EXPERIMENTAL
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 5
; FEATURE:
; NAME/KEY: terminator
; LOCATION: 27385..27387
; FEATURE:
; NAME/KEY: exon
; LOCATION: 28008..28129
; IDENTIFICATION METHOD: experimental
; OTHER INFORMATION: /evidence= EXPERIMENTAL
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 6
; NAME/KEY: terminator
; LOCATION: 28129..28131
; FEATURE:
; NAME/KEY: exon
; LOCATION: 28129..28131
; FEATURE:
; NAME/KEY: complement (34528..34895)
; LOCATION: complement (34528..34895)
; OTHER INFORMATION: /function= "arsenite resistance
; OTHER INFORMATION: gene"
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 1
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (34092..34358)
; LOCATION: complement (34092..34358)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 2
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (33779..33963)
; LOCATION: complement (33779..33963)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 3
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (33493..33591)
; LOCATION: complement (33493..33591)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 4
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (33297..33408)
; LOCATION: complement (33297..33408)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 5
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (32959..33094)
; LOCATION: complement (32959..33094)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 6
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (32569..32628)
; LOCATION: complement (32569..32628)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 7
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (32386..32468)
; LOCATION: complement (32386..32468)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 8
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (31894..32080)
; LOCATION: complement (31894..32080)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 9
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (31363..31534)
; LOCATION: complement (31363..31534)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 10
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (31131..31284)
; LOCATION: complement (31131..31284)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 11
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (30816..31011)
; LOCATION: complement (30816..31011)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 12
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (30470..30626)
; LOCATION: complement (30470..30626)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 13
; FEATURE:
; NAME/KEY: exon
; LOCATION: complement (30187..30274)
; LOCATION: complement (30187..30274)
; OTHER INFORMATION: /gene= "AR"
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; OTHER INFORMATION: /number= 14
; FEATURE:
; NAME/KEY: exon
; LOCATION: Complement (29945..30073)
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 15
; FEATURE:
; NAME/KEY: exon
; LOCATION: Complement (29664..29856)
; OTHER INFORMATION: /gene= "ARS"
; OTHER INFORMATION: /number= 16
; US-08-814-095-7

Query Match 7.2%; Score 192.2; DB 3; Length 35060;
Best Local Similarity 77.4%; Pred. No. 1.2e-33;
Matches 233; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

QY 1530 TTTTATTTTGAATGAGTCTCGTCTGTCGCCAGGCTGAGTGAGTGCAC 1589
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 14160 TTTTATTTTGTAGACGGAGTTTACGTCTGTACCCAGGCTGGAGTGC 14101

QY 1590 TCTCCGCTCACTCAACCTCCACTCCCTCGGGCTCAAGCGATCCTCCC 1649
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 14100 TCTCCAACTACTTAACCTCCGCCGCCAGAGTTCAAGCGATTCTCT 14041

QY 1650 GAAGTAGCTGGGACTATAGTGTTGTTACCATCACACCTGGCTAATTT 1709
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 14040 CAAGTAGCTGGGATTACAGCGCTGCCACCACACCTGGCTAATTT 13981

QY 1710 GACACAGGGTTTCGCATGTTGCCAGGCTGGTCTTGAATTCGTAGCT 1769
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 13980 GAGCAGGGTTTCTGCATATTGGCCAGGCTGGTCTTGAATTCGT 13921

QY 1770 CCGGCTCGGCTCCCAAGTACTGGGATTACACGAGGACCATGCCAG 1829
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 13920 CTTGCTTGGCTTCCCAAGTACTGGGATTACAGGATTAAGCCAC 13861

QY 1830 T 1830
|
Db 13860 T 13860

RESULT 13
US-09-791-211-10
; Sequence 10, Application US/09791211
; Patent No. 6448080
; GENERAL INFORMATION:
; APPLICANT: Donna T. Ward
; TITLE OF INVENTION: ANTISENSE MODULATION OF WRN EXPRESSION
; FILE REFERENCE: RTS-0205
; CURRENT APPLICATION NUMBER: US/09/791,211
; CURRENT FILING DATE: 2001-02-23
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 10
; LENGTH: 98844
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 24962
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 64383
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 65468
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 65469
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 65470
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; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 65471
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 87130
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 89049
; OTHER INFORMATION: unknown
; OTHER INFORMATION:
; US-09-791-211-10

Query Match 7.2%; Score 192.2; DB 4; Length 98844;
Best Local Similarity 79.0%; Pred. No. 1.7e-33;
Matches 241; Conservative 0; Mismatches 63; Indels 1; Gaps 1;

QY 1526 TTTGTTTTTATTTTGAATGGAGTCTCGTTCGTGCCAGGCTGAGGTGC 1585
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2480 TTTTATTTTATTTTGGATGGGCTCTCACTCGGTTGCCAGGAGTGCAG 2539

QY 1586 GCAATCTCGGCTCACTACAACCTCCACTCCCTGGGGCTCAAGCATCT 1645
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2540 GCATCTAGCTCACTGCAACCTCCGCTCCCT-AGTTCAAGCGATTCT 2598

QY 1646 CCGCGAAGTAGCTGGGACTATAGTGTGTACCATCACACTGGCTAAT 1705
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2599 CTTCTAGCTAGCTGGGATTACAGAGCGTGCACCATGCTGCTAAT 2658

QY 1706 TGTAGACACAGGGTTTCGCCATGTTGCCAGGCTGGTCTTGAATTC 1765
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2659 AGTAGACAGCGGAGTTTAACCATGTTGGTCAGGCTGGTCTTGAAC 2718

QY 1766 CTTGCGGGCTCGGCTCCCAAGTACTGGGATTACACGCAAGGACCA 1825
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2719 TCGCGCGGCTTGGCTCCCAAGTACTGGGATTACAGCATGAGCC 2778

QY 1826 TAGAT 1830
|| ||
Db 2779 TAAAT 2783

RESULT 14
US-09-729-995-3/c
; Sequence 3, Application US/09729995
; Patent No. 6426206
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL000904
; CURRENT APPLICATION NUMBER: US/09/729,995
; CURRENT FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 29629
; TYPE: DNA
; ORGANISM: Human
; US-09-729-995-3

Query Match 7.2%; Score 191.4; DB 4; Length 29629;
Best Local Similarity 76.3%; Pred. No. 1.8e-33;
Matches 248; Conservative 0; Mismatches 76; Indels 1; Gaps 1;

QY 1524 GTTTTGTATTTTATTTTGAATGGAGTCTCGTTCGTGCCAGGCTGAG 1583
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 11930 GTTTTATTTTATTTTGGAGAGAGTCTCACTCTGTCCCCAGGCTGGA 11871

QY 1584 GTCAATCTCCGCTCACTCAACCTCCACTCCCTGGGGCTCAAGCGAT 1643
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 11870 GCGTATCTCGGCTCACTGCAGCTCCAC-CTCCAGGTTCAAGAGAT 11812
```


RESULT 15
US-08-480-784-20
: Sequence 20, Application US/08480784
: Patent No. 5693473
: GENERAL INFORMATION:
: APPLICANT: Skolnick, Mark H.
: APPLICANT: Goldgar, David E.
: APPLICANT: Miki, Yoshio
: APPLICANT: Swenson, Jeff
: APPLICANT: Kamb, Alexander
: APPLICANT: Harshman, Keith D.
: APPLICANT: Shattuck-Eidens, Donna M.
: APPLICANT: Tavtigian, Sean V.
: APPLICANT: Wiseman, Roger W.
: APPLICANT: Futreal, P. Andrew
: TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer
: TITLE OF INVENTION: Susceptibility Gene
: NUMBER OF SEQUENCES: 85
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
: STREET: 1201 New York Avenue, N.W., Suite 1000
: CITY: Washington
: STATE: DC
: COUNTRY: USA
: ZIP: 20005
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/480,784
: FILING DATE:
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/409,305
: FILING DATE: 24-MAR-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/348,824
: FILING DATE: 23-NOV-1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/308,104
: FILING DATE: 16-SEP-1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/300,266
: FILING DATE: 02-SEP-1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/289,221
: FILING DATE: 12-AUG-1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Ihnen, Jeffrey L.
: REGISTRATION NUMBER: 28,957
: REFERENCE/DOCKET NUMBER: 24884-109347
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 202-962-4810

Db	241	TCAGGAACAAGGTGGTGACTGTGGATGGCGTGAGAGTGAAGCTGSCAGATCTGGGACACCG	300
Qy	301	CTGGCAGGAACGGTTCCGAAGCGTCACCCATGCTTATTACAGAGATGCTCAGGCGCTTGC	360
Db	301	CTGGCAGGACGGTTCGAAGCGTCACCCATGCTTATTACAGAGATGCTCAGGCGCTTGC	360
Qy	361	TTCTGCTGTATGACATACCAACAAATCTTCTTCGACAAACATCAGGGCTTGCTCAGTG	420
Db	361	TTCTGCTGTATGACATACCAACAAATCTTCTTCGACAAACATCAGGGCGTGGCTCAGTG	420
Qy	421	AGATTCTAGTAGTATGCCAGAGGGACGTGGTATCATGCTAGGCAACAAGGGCGGATA	480
Db	421	AGATTCTAGTAGTATGCCAGAGGGACGTGGTATCATGCTAGGCAACAAGGGCGGATA	480
Qy	481	TGAGCAGCGAAAGAGTGATCCGTTCCGAAGACGGAGAGACCTTGGCCAGGGAGTACGGTG	540
Db	481	TGAGCAGCGAAAGAGTGATCCGTTCCGAAGACGGAGAGACCTTGGCCAGGGAGTACGGTG	540
Qy	541	TTCCCTTCTTGAGAGACCGGCCAAGACTGSCATGATGTGGATGAGCTTTCTTGCCCA	600
Db	541	TTCCCTTCTTGAGAGACCGGCCAAGACTGSCATGATGTGGATGAGCTTTCTTGCCCA	600
Qy	601	TCGCCAAGGAACCTGAATACCGGGCGGGGCATCAGCGGGATGAGCCAGGTTCCAGATCC	660
Db	601	TCGCCAAGGAACCTGAATACCGGGCGGGGCATCAGCGGGATGAGCCAGGTTCCAGATCC	660
Qy	661	GAGACTATGTAGAGTCCGAGAGAGCGCTCCAGCTGCTGCTCTTATGTGAATCCCAG	720
Db	661	GAGACTATGTAGAGTCCGAGAGAGCGCTCCAGCTGCTGCTCTTATGTGAATCCCAG	720
Qy	721	GGGCGACAGAGAGGCTCTGGAGGCACACAGGATGCAGCTTCCCTCCACGGCTTGGC	780
Db	721	GGGCGACAGAGAGGCTCTGGAGGCACACAGGATGCAGCTTCCCTCCACGGCTTGGC	780
Qy	781	TTATTCCAAGAGGCTGAGCCATGGGGAGAAAGATGGAGAGACTCACTGCACAGCGCTTC	840
Db	781	TTATTCCAAGAGGCTGAGCCATGGGGAGAAAGATGGAGAGACTCACTGCACAGCGCTTC	840
Qy	841	CTACAGGGAGCTATACCTCACTCCTACTTCAGTTCTCGGGTCTCCCGGCATCCACAG	900
Db	841	CTACAGGGAGCTATACTCCACTCCTACTTCAGTTCTCGGGTCTCCCGGCATCCACAG	900
Qy	901	GGAGGGTAAACACTTAGCTTTTATTTTAAATAGTACATAATTTAATACAAAAGGCGC	960
Db	901	GGAGGGTAAACACTTAGCTTTTATTTTAAATAGTACATAATTTAATACAAAAGGCGC	960
Qy	961	CTGAGTCCCAAAAACCGAGGCTGGAGCTAGTGGCCCTTTTGCTTCTTAGGACTTGGG	1020
Db	961	CTGAGTCCCAAAAACCGAGGCTGGAGCTAGTGGCCCTTTTGCTTCTTAGGACTTGGG	1020
Qy	1021	GGGCGGGCCCTCCCTCTTAAGCATACAAGGTGTGTGTCTCCAGCTACGCCCCAGGGG	1080
Db	1021	GGGCGGGCCCTCCCTCTTAAGCATACAAGGTGTGTGTCTCCAGCTACGCCCCAGGGG	1080
Qy	1081	ACACAGATGCACCTTGGGGGTGAGGCGAGGTAAATGACTCCATCCGACCTCAGTTCAAGT	1140
Db	1081	ACACAGATGCACCTTGGGGGTGAGGCGAGGTAAATGACTCCATCCGACCTCAGTTCAAGT	1140
Qy	1141	GGACAGAGGCTCAGGTCACCCACGCGCTTCACTGTCTCCGCTCTCCAGAGCTTATCTTC	1200
Db	1141	GGACAGAGGCTCAGGTCACCCACGCGCTTCACTGTCTCCGCTCTCCAGAGCTTATCTTC	1200
Qy	1201	GCCCCATCTCCCAATTAAGTGGGCGCTTGTGCTGTGAGGAGACCAAGACCTCAGGAAG	1260
Db	1201	GCCCCATCTCCCAATTAAGTGGGCGCTTGTGCTGTGAGGAGACCAAGACCTCAGGAAG	1260
Qy	1261	ATAAGAGATATGGAGATGGGAGGGGAGACAAAGGGCAGAGAGTAGGCTTACCTGGCT	1320
Db	1261	ATAAGAGATATGGAGATGGGAGGGGAGACAAAGGGCAGAGAGTAGGCTTACCTGGCT	1320
Qy	1321	ATCTCTGGCCCTTACTAACACCCCCCTGGAGGCATGCCCTTTTCTCCAGCACACAAGCAC	1380
Db	1321	ATCTCTGGCCCTTACTAACACCCCCCTGGAGGCATGCCCTTTTCTCCAGCACACAAGCAC	1380

QY	1381	ATTGGGCACTCGAATAATGTGTTCCAGGCTCCTGTCTCTGTGACATTCAGATCCTGGG	1444
DB	1381		1440
QY	1441	GAGCCCTCCCCCTCGAATCCTCGCTTACCTACCTTCTGCTGCTGTGCACCTAAAAC	1500
DB	1441		1500
QY	1501	CTCAGGTCAGAACTAGGAAAGAGTTTCTTTTATTTTTTGAATAGGATCTCGTTCT	1560
DB	1501		1560
QY	1561	GTCCGCCAGGCTGAGGTGCAGTAGTGCATCTCCGCTCACTACACCTTCCACTCCCTGGG	1620
DB	1561	GTCCGCCAGGCTGAGGTGCAGTAGTGCATCTCCGCTCACTACACCTTCCACTCCCTGGG	1620
QY	1621	GCTCAAGCATCTCCACACTCAGCCGCCGAAGTAGCTGGGACTATAGTGTGTACCATC	1680
DB	1621	GCTCAAGCATCTCCACACTCAGCCGCCGAAGTAGCTGGGACTATAGTGTGTACCATC	1680
QY	1681	ACACTGGCTAATTTTTTGTATTTTTTGTAGACACAGGGTTTCGCCATGTTGCCAGGCTG	1740
DB	1681	ACACTGGCTAATTTTTTGTATTTTTTGTAGACACAGGGTTTCGCCATGTTGCCAGGCTG	1740
QY	1741	GTCTTGAATTCCTCAGCTCAAGCAACTCGCGGCTCGGCCCTCCCAAAGTACTGGGATTA	1800
DB	1741	GTCTTGAATTCCTCAGCTCAAGCAACTCGCGGCTCGGCCCTCCCAAAGTACTGGGATTA	1800
QY	1801	CACGCAGAAGCACCATGCCAGGCTAGATGTGCTTTATCCAAATCCTTTGSCAGGCATG	1860
DB	1801	CACGCAGAAGCACCATGCCAGGCTAGATGTGCTTTATCCAAATCCTTTGSCAGGCATG	1860
QY	1861	CAGCTTCCACAGGCATTTCTTCAAGCAGCTGAAGTGTGTTAGCCCTCCTGGGTTAAGACC	1920
DB	1861	CAGCTTCCACAGGCATTTCTTCAAGCAGCTGAAGTGTGTTAGCCCTCCTGGGTTAAGACC	1920
QY	1921	AGATAAGCAGAAATCCCTTCTTCTAGGTTTGGAAATGTGTTGTGAAAAAAGAGAATCCC	1980
DB	1921	AGATAAGCAGAAATCCCTTCTTCTAGGTTTGGAAATGTGTTGTGAAAAAAGAGAATCCC	1980
QY	1981	TGGCTCTGGAGCTGGTGGGAGACAAGATTAAAGCAACCTCCCTGCACATGTATCCCTTT	2040
DB	1981	TGGCTCTCTGGAGCTGGTGGGAGACAAGATTAAAGCAACCTCCCTGCACATGTATCCCTTT	2040
QY	2041	GACCCCAAGCTCTGCCTCCTCCCTGACACCCATGCCCCTTCCTTTAACTTCTCAACAG	2100
DB	2041	GACCCCAAGCTCTGCCTCCTCCCTGACACCCATGCCCCTTCCTTTAACTTCTCAACAG	2100
QY	2101	ATACCCAGGCGCTAACTGCTTTTAACTGCTTTTAACTGCTTTTAACTGCTTTTAACTGCTTTT	2160
DB	2101	ATACCCAGGCGCTAACTGCTTTTAACTGCTTTTAACTGCTTTTAACTGCTTTTAACTGCTTTT	2160
QY	2161	TCACCCATTTCGGAGTTAAACCAATGCAATATGAGTAAACAAGTCATGTGGGTATGTC	2220
DB	2161	TCACCCATTTCGGAGTTAAACCAATGCAATATGAGTAAACAAGTCATGTGGGTATGTC	2220
QY	2221	TGGGTTAGAGAGAGGGGTAGCAAGTTTCATGTGCTCCTTTGGTCACATATCTCCCAAAGC	2280
DB	2221	TGGGTTAGAGAGAGGGGTAGCAAGTTTCATGTGCTCCTTTGGTCACATATCTCCCAAAGC	2280
QY	2281	TCGTATCCTTGCATTTGGGAAGTGACAGGAACAATGAGTTCATGACCTGCAGGCATCTTT	2340
DB	2281	TCGTATCCTTGCATTTGGGAAGTGACAGGAACAATGAGTTCATGACCTGCAGGCATCTTT	2340
QY	2341	ACTGCAGCTCTCCGGCTCGAGGGGAGAGGGGAGGAAGAAGTATGGCTGCACATTT	2400
DB	2341	ACTGCAGCTCTCCGGCTCGAGGGGAGAGGGGAGGAAGAAGTATGGCTGCACATTT	2400
QY	2401	CTGAGGCTACTGCATTTCTTTCAAGGCAGAAATCTTTGCTCTGAGCAGTACGGGCTCCA	2460
DB	2401	CTGAGGCTACTGCATTTCTTTCAAGGCAGAAATCTTTGCTCTGAGCAGTACGGGCTCCA	2460

Db 1572 TACAACCTCCACTCCCTGGGGCTCAAGCATCTCCACCTCAGCCCCAGAGTAGCTGG 1631
QY 1661 GACTATAGTGTGTACCATCACACCTGGCTAATTTTGTATTTTGTAGACACAGGTT 1720
Db 1632 GACTATAGTGTGTACCATCACACCTGGCTAATTTTGTATTTTGTAGACACAGGTT 1691
QY 1721 TCGCATGTTGCCAGGCTGCTTGAATCTGAGCTCAAGCAACCTGCCGGCTCCGCC 1780
Db 1692 TCGCATGTTGCCAGGCTGCTTGAATCTGAGCTCAAGCAACCTGCCGGCTCCGCC 1751
QY 1781 CTCCTCAAGTACTGGGATTTACAGCAGAGGACCATGCCAGGCTAGATGTCTTATC 1840
Db 1752 CTCCTCAAGTACTGGGATTTACAGCAGAGGACCATGCCAGGCTAGATGTCTTATC 1811
QY 1841 CCAATCCTTTGGCAGGCTGAGCTCCACAGCGGATTTCTCAAGCAGCTGAAGTGTTA 1900
Db 1812 CCAATCCTTTGGCAGGCTGAGCTCCACAGCGGATTTCTCAAGCAGCTGAAGTGTTA 1871
QY 1901 GCCTCCTGGTTAAGAGCCAGATAGGAGAAATCCCTTCTAGTGTGGAAATGTGTG 1960
Db 1872 GCCTCCTGGTTAAGAGCCAGATAGGAGAAATCCCTTCTAGTGTGGAAATGTGTG 1931
QY 1961 TG-AAAAAAAGAAATCCCTGGCTCTCTGGAGCTGGTGGGAGACAAGATTAAAGCAAC 2019
Db 1932 TGAATAAAAAAGAAATCCCTGGCTCTCTGGAGCTGGTGGGAGACAAGATTAAAGCAAC 1991
QY 2020 TCCCTTGACATGTATCCCTTTGACCCCAAGCTCTGCCTCCTGACCAACCATGCCCT 2079
Db 1992 TCCCTTGACATGTATCCCTTTGACCCCAAGCTCTGCCTCCTGACCAACCATGCCCT 2051
QY 2080 TTCTTTAACTTCTCAACAGATACACAGGCTTAACTGCTTTACCTCCCTCCTACTGA 2139
Db 2052 TTCTTTAACTTCTCAACAGATACACAGGCTTAACTGCTTTACCTCCCTCCTACTGA 2111
QY 2140 GTCAGGTTAGGTGGGAGGTCAACCATTTCCGAGTTAAACCATGCAATATGAGTAA 2199
Db 2112 GTCAGGTTAGGTGGGAGGTCAACCATTTCCGAGTTAAACCATGCAATATGAGTAA 2171
QY 2200 ACAAGTCAATGGGTATGCTGGGTAGAGAGGGGTAGCAAGTTTCATGTCTCCTCT 2259
Db 2172 ACAAGTCAATGGGTATGCTGGGTAGAGAGGGGTAGCAAGTTTCATGTCTCCTCT 2231
QY 2260 TGCTACATATCTCCCAAGCTCTGATCCCTGCGCATGGGAAGTGGACAGAAACATGAG 2319
Db 2232 TGCTACATATCTCCCAAGCTCTGATCCCTGCGCATGGGAAGTGGACAGAAACATGAG 2291
QY 2320 TCATGACCTGCAGGCATCTTTACTGAGCTCTGCGGCTGGAGGGGAGAGGGAGGA 2379
Db 2292 TCATGACCTGCAGGCATCTTTACTGAGCTCTGCGGCTGGAGGGGAGAGGGAGGA 2351
QY 2380 AGAAGTATGGCTGCATTTCTGAGGCTACTGCATTTGCTTTCAAGCGCAAAATCTTC 2439
Db 2352 AGAAGTATGGCTGCATTTCTGAGGCTACTGCATTTGCTTTCAAGCGCAAAATCTTC 2411
QY 2440 TCTGAGCAGTACAGGCTCCAGTTTGGGCCGATAGGAAGTTCTCGGTGGCTCCCTCA 2499
Db 2412 TCTGAGCAGTACAGGCTCCAGTTTGGGCCGATAGGAAGTTCTCGGTGGCTCCCTCA 2471
QY 2500 GGCAGAGGAGGAGGCTGACATTCGCAATCTCTTCTGGGCCCAAGGACAGTTGCAG 2559
Db 2472 GGCAGAGGAGGAGGCTGACATTCGCAATCTCTTCTGGGCCCAAGGACAGTTGCAG 2531
QY 2560 GAGATCAATCCCATAGACAGCTCTGGGCTCTTTCGATTTTGGATTTTTCAGAAATTA 2619
Db 2532 GAGATCAATCCCATAGACAGCTCTGGGCTCTTTCGATTTTGGATTTTTCAGAAATTA 2591
QY 2620 GCAGTATTTTGGAAAGCAAAAAA 2651
Db 2592 GCAGTATTTTGGAAAGCAAAAAA 2623

; Sequence 3, Application US/09817199A
; Patent No. US20020142380A1
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
; FILE REFERENCE: CL001187
; CURRENT FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 13182
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(13182)
; OTHER INFORMATION: n = A,T,C or G
US-09-817-199A-3

Query Match 76.0%; Score 2031.8; DB 10; Length 13182;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2039; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 589 CCTTTCCTGGCCATCCCAAGAACTGAAATACCGGGCCGGCATCAGCGGATGAGCCCA 648
Db 10060 CCAATGTCTCTTTCAGGGAACCTGAAATACCGGGCCGGCATCAGCGGATGAGCCCA 10119
QY 649 GCTTCCAGATCCGAGACATGTAGAGTCCAGAGAAAGCGCTCCAGCTGCTGCTCTTCA 708
Db 10120 GCTTCCAGATCCGAGACATGTAGAGTCCAGAGAAAGCGCTCCAGCTGCTGCTCTTCA 10179
QY 709 TGTGAATCCAGGGGCGAGAGAGGCTCTGAGGCGCACACAGGATGAGCTTCCCTCC 768
Db 10180 TGTGAATCCAGGGGCGAGAGAGGCTCTGAGGCGCACACAGGATGAGCTTCCCTCC 10239
QY 769 CCCAGGCTGGCTTATTCAGAGGCTGAGCAATGGGGAGAAAGATGAGGACTCACTG 828
Db 10240 CCCAGGCTGGCTTATTCAGAGGCTGAGCAATGGGGAGAAAGATGAGGACTCACTG 10299
QY 829 CACAGCGCTTCTAGCAGGAGCTATCTCCAACTCTCTACTTGTAGTTCTCGGCTCTCC 888
Db 10300 CACAGCGCTTCTAGCAGGAGCTATCTCCAACTCTCTACTTGTAGTTCTCGGCTCTCC 10359
QY 889 CGCGATCCACAGGAGGTTAAACACTTACCTTTTATTTAATAGTACATAATTTAATAC 948
Db 10360 CGCGATCCACAGGAGGTTAAACACTTACCTTTTATTTAATAGTACATAATTTAATAC 10419
QY 949 CAAAAAGGCGCTGGATCCCAAAAACCCGAGGCTGGAGCTAGTGGCCCTTTTGCCTT 1008
Db 10420 CAAAAAGGCGCTGGATCCCAAAAACCCGAGGCTGGAGCTAGTGGCCCTTTTGCCTT 10479
QY 1009 CTAGGACTTTGGGGGCGGCGCTCCCTCTAAGCATAAACAAAGGTTGTTGCTCCAGCT 1068
Db 10480 CTAGGACTTTGGGGGCGGCGCTCCCTCTCTAAGCATAAACAAAGGTTGTTGCTCCAGCT 10539
QY 1069 CAGCCCCAGGGACACAGATGCACTTTGGGGGTGAGGGCAGGTAATGACTCCATCGACC 1128
Db 10540 CAGCCCCAGGGACACAGATGCACTTTGGGGGTGAGGGCAGGTAATGACTCCATCGACC 10599
QY 1129 CTAGTTTACGTGGACAGAGGCTCAGTGCACCCAGCTTCACTGTCTCCGCTCTCCAG 1188
Db 10600 CTAGTTTACGTGGACAGAGGCTCAGTGCACCCAGCTTCACTGTCTCCGCTCTCCAG 10659
QY 1189 GAGCTTATCTTCCGCCCATCTCCCAATTAAGTGGGCCCTTGTGCTGTGAGGAGACAAA 1248
Db 10660 GAGCTTATCTTCCGCCCATCTCCCAATTAAGTGGGCCCTTGTGCTGTGAGGAGACAAA 10719
QY 1249 GCCTCAGGGAAGATAAGAGATATGGAGATGGGAGGGAGGACAAGGGCAGAGAGTAGG 1308
Db 10720 GCCTCAGGGAAGATAAGAGATATGGAGATGGGAGGGAGGACAAGGGCAGAGAGTAGG 10779

Qy 1309 GTCTAGCTGGCTATCTCTGGCCCTTACTAACACCCCTGGAGGATGCCCTTTTCTCCA 1368
Db 10780 GTCTAGCTGGCTATCTCTGGCCCTTACTAACACCCCTGGAGGATGCCCTTTTCTCCA 10839
Qy 1369 GCACACAGACATTTGGGACCTCGGAATATTTGGTTCCAGGCTCTGTCTCTGGACTT 1428
Db 10840 GCACACAGACATTTGGGACCTCGGAATATTTGGTTCCAGGCTCTGTCTCTGGACTT 10899
Qy 1429 CAGATCTGGGGAGCCCTCCGCCCTGAATCCCTGGCTTACCTACCTTCCTGGCTGT 1488
Db 10900 CAGATCTGGGGAGCCCTCCGCCCTGAATCCCTGGCTTACCTACCTTCCTGGCTGT 10959
Qy 1489 GCACCTAAAAACCTCAGGTCAGAACTAGGAAAGAGTTTGTGTTTATTTTGGAAATG 1548
Db 10960 GCACCTAAAAACCTCAGGTCAGAACTAGGAAAGAGTTTGTGTTTATTTTGGAAATG 11019
Qy 1549 GAGTCTCGTTCTGTGGCCAGCTGAGGTGAGTGTGCAATCTCCGCTCACTACAACCT 1608
Db 11020 GAGTCTCGTTCTGTGGCCAGCTGAGGTGAGTGTGCAATCTCCGCTCACTACAACCT 11079
Qy 1609 CCACCTCCCTGGGCTCAAGCATCTCCACCTCAGCGCCGGAAGTAGCTGGGACTATAG 1668
Db 11080 CCACCTCCCTGGGCTCAAGCATCTCCACCTCAGCGCCGGAAGTAGCTGGGACTATAG 11139
Qy 1669 GTGTGTACCATCACACCTGGCTAATTTTGTATTTTGTAGACACAGGTTTCGCCATG 1728
Db 11140 GTGTGTACCATCACACCTGGCTAATTTTGTATTTTGTAGACACAGGTTTCGCCATG 11199
Qy 1729 TTGCCAGGCTGTGTTGAATCTGAGCTCAAGCAACCTCGCGGCTCGGCCCTCCAAA 1788
Db 11200 TTGCCAGGCTGTGTTGAATCTGAGCTCAAGCAACCTCGCGGCTCGGCCCTCCAAA 11259
Qy 1789 GTACTGGGATTACACGACAGGACCATGCCAGGCTAGATGTCTTATCCCAATCCT 1848
Db 11260 GTACTGGGATTACACGACAGGACCATGCCAGGCTAGATGTCTTATCCCAATCCT 11319
Qy 1849 TTGCCAGGCTAGAGCTCCACAGCGGATTTCTTCAAGCAGCTGAAGTGTTAGCCCTCCT 1908
Db 11320 TTGCCAGGCTAGAGCTCCACAGCGGATTTCTTCAAGCAGCTGAAGTGTTAGCCCTCCT 11379
Qy 1909 GGGTTAAGAGCAGATTAAGGAGAAATCCCTTTCTAGTGTGGAATGTGTTGAAAAA 1968
Db 11380 GGGTTAAGAGCAGATTAAGGAGAAATCCCTTTCTAGTGTGGAATGTGTTGAAAAA 11439
Qy 1969 AAGAGAAATCCCTGGCTCCTGGAGCTGTGGAGACAGATTAAGCAAACTCCCTGAC 2028
Db 11440 AAGAGAAATCCCTGGCTCCTGGAGCTGTGGAGACAGATTAAGCAAACTCCCTGAC 11499
Qy 2029 ATGTATCCCTTTGACCCCAAGCTCTGCCTCCTCCCTGACCACCATGCCCTTTCTTTAA 2088
Db 11500 ATGTATCCCTTTGACCCCAAGCTCTGCCTCCTCCCTGACCACCATGCCCTTTCTTTAA 11559
Qy 2089 CTCTCTAAACAGATACCAGGCTTAACCTGCTTTACCTCCCTCCTCTACTGAGTCAGTTA 2148
Db 11560 CTCTCTAAACAGATACCAGGCTTAACCTGCTTTACCTCCCTCCTCTACTGAGTCAGTTA 11619
Qy 2149 GGTGGTGGAGGTCACCCATTTCCGAGTTAAACCAATGCAATGAGTAAACAAGTCA 2208
Db 11620 GGTGGTGGAGGTCACCCATTTCCGAGTTAAACCAATGCAATGAGTAAACAAGTCA 11679
Qy 2209 TGTGGGTATGCTCTGGGTAGAGAGGGGTAGCAAGTTTCATGTCTCCTCTGGTTCACAT 2268
Db 11680 TGTGGGTATGCTCTGGGTAGAGAGGGGTAGCAAGTTTCATGTCTCCTCTGGTTCACAT 11739
Qy 2269 ATCTCCAAAGCTCTGATCTCCCTGGCATGGGAAGTGGACAGAAACATGAGTCAATGACCT 2328
Db 11740 ATCTCCAAAGCTCTGATCTCCCTGGCATGGGAAGTGGACAGAAACATGAGTCAATGACCT 11799
Qy 2329 GCAGGCACTTTTACTGCAGCTCTGCCGCTGGAGGGGAGAGGGGAGGAAGTATG 2388
Db 11800 GCAGGCACTTTTACTGCAGCTCTGCCGCTGGAGGGGAGAGGGGAGGAAGTATG 11859

Qy 2389 CGTGCACATTTCTGAGCTACTGCATTTGCTTTCAAGGCAGAAATCTTGTCTGAGCAG 2448
Db 11860 CGTGCACATTTCTGAGCTACTGCATTTGCTTTCAAGGCAGAAATCTTGTCTGAGCAG 11919
Qy 2449 TCAGCGGCTCAGTTTGGGCCCGATAGGAAGTTCTCGTGGCTTCCTCAGGACAGCA 2508
Db 11920 TCAGCGGCTCAGTTTGGGCCCGATAGGAAGTTCTCGTGGCTTCCTCAGGACAGCA 11979
Qy 2509 GGGAGGAGCTGAGATTGCCAGTCTCTTCTGGGCCCAAGCAGTTTCAGAGATCCAA 2568
Db 11980 GGGAGGAGCTGAGATTGCCAGTCTCTTCTGGGCCCAAGCAGTTTCAGAGATCCAA 12039
Qy 2569 TCCCATAGACAGCTCTGGGCTCTTGCATTTGAGTTTTCAGAAATTAACCTGCAGTATT 2628
Db 12040 TCCCATAGACAGCTCTGGGCTCTTGCATTTGAGTTTTCAGAAATTAACCTGCAGTATT 12099
Qy 2629 TGGAAAGCAA 2639
Db 12100 TGGAAAGCACA 12110

RESULT 4
US-09-764-868-493
: Sequence 493, Application US/09764868
: Patent No. US20020168711A1
: GENERAL INFORMATION:
: APPLICANT: Rosen et al.
: TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
: FILE REFERENCE: PFT32
: CURRENT APPLICATION NUMBER: US/09/764,868
: PRIOR APPLICATION DATA REMOVED - refer to PALM or file wrapper
: NUMBER OF SEQ ID NOS: 1510
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 493
: LENGTH: 1316
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: SITE
: LOCATION: (1281)
: OTHER INFORMATION: n equals a,t,g, or c
: NAME/KEY: SITE
: LOCATION: (1299)
: OTHER INFORMATION: n equals a,t,g, or c
US-09-764-868-493

Query Match 48.1%; Score 1286; DB 9; Length 1316;
Best Local Similarity 98.5%; Pred. No. 2.7e-218;
Matches 1286; Conservative 9; Mismatches 11; Indels 0; Gaps 0;
Qy 45 ACGGGACGGCCAGGCGCGTGGCCACCGGGATGGCAGGCGCCGAGCGCTCCCGGCC 104
Db 1 ACGGGACGGCCAGGCGCGTGGCCACCGGGATGGCAGGCGCCGAGCGCTCCCGGCC 60
Qy 105 TGCAGTCCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCTCCG 164
Db 61 TGCAGTCCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCTCCG 120
Qy 165 AAAACATGTTTCTGATCCAAATTCAAAGACGGGCGCTTCCTGTCGGAACCTTCATAGCC 224
Db 121 AAAACATGTTTCTGATCCAAATTCAAAGACGGGCGCTTCCTGTCGGAACCTTCATAGCC 180
Qy 225 ACCCTGCGCATAGACTTCAGGAACAAGGTGTGACTGTGGATGGCTGAGAGTGAAGCTG 284
Db 181 ACCCTGCGCATAGACTTCAGGAACAAGGTGTGACTGTGGATGGCTGAGAGTGAAGCTG 240
Qy 285 CAGATCTGGACACCGCTGGGACGAAAGCTTCCGAAGCGTCACCCATGCTTTATACAGA 344
Db 241 CAGATCTGGACACCGCTGGGACGAAAGCTTCCGAAGCGTCACCCATGCTTTATACAGA 300
Qy 345 GATGCTCAGGCTTGTCTGTCTGTATGACATCACCAAAATCTTCTTTCGACAACATC 404

Db 301 GATGCTCAGGCGCTTGCTTCTGCTGTATGACATCATCAACAAACAAATCTTCTTTTGACAAATC 360
QY 405 AGGGCCCTGCTCACTCAGATTTCATGAGTATGCCACAGGAGCGTGTGTATCATGCTGCTA 464
Db 361 AGGGCCCTGCTCACTCAGATTTCATGAGTATGCCACAGGAGCGTGTGTATCATGCTGCTA 420
QY 465 GGCACAAAGGCGGATATGAGCAGCAAGAGTATCGCTTCCGAAGCAGGAGAGACTTGG 524
Db 421 GGCACAAAGGCGGATATGAGCAGCAAGAGTATCGCTTCCGAAGCAGGAGAGACTTGG 480
QY 525 GCCAGGAGTACGGTGTCCCTTCTTGGAGACAGCCAGAGCTGGCATGAATGTGGAG 584
Db 481 GCCAGGAGTACGGTGTCCCTTCTTGGAGACAGCCAGAGCTGGCATGAATGTGGAG 540
QY 585 TTAGCCTTTCTGCGCATCGCCACAGGAACTGAATAACCGGCGGGCATCAGCGGGATGAG 644
Db 541 TTAGCCTTTCTGCGCATCGCCACAGGAACTGAATAACCGGCGGGCATCAGCGGGATGAG 600
QY 645 CCAGGCTTCCAGATCCGAGACTATGTAGTCCAGAAAGGCTCCAGCTGCTGCTCC 704
Db 601 CCAGGCTTCCAGATCCGAGACTATGTAGTCCAGAAAGGCTCCAGCTGCTGCTCC 660
QY 705 TTATGTGAATCCAGGGGCGCAGAGAGGCTCTGGAGCACAAGGATGCAAGCTTCC 764
Db 661 TTATGTGAATCCAGGGGCGCAGAGAGGCTCTGGAGCACAAGGATGCAAGCTTCC 720
QY 765 CCCTCCAGGCTTGGCTTATTTCCAGAGGCTGAGCCAAATGGGAGAAAGATGGAGGACTC 824
Db 721 CCCTCCAGGCTTGGCTTATTTCCAGAGGCTGAGCCAAATGGGAGAAAGATGGAGGACTC 780
QY 825 ACTGCACAGCGCTTCCCTAGCAGGGAGCTATACTTCCAACCTCTACTTGTAGTTCTCGGCT 884
Db 781 ACTGCACAGCGCTTCCCTAGCAGGGAGCTATACTTCCAACCTCTACTTGTAGTTCTCGGCT 840
QY 885 CTCCCGCATCCAGAGGAGGCTAAACACTTACTTATTTTATAGTACATAATTTA 944
Db 841 CTCCCGCATCCAGAGGAGGCTAAACACTTACTTATTTTATAGTACATAATTTA 900
QY 945 ATACCAAAAAGGCGCTGGATCCCAAAAACCGAGGCTGGAGCTAGTGGCCCTTTTG 1004
Db 901 ATACCAAAAAGGCGCTGGATCCCAAAAACCGAGGCTGGAGCTAGTGGCCCTTTTG 960
QY 1005 CTTTCTAGGACTTTGGGGGCGGCCCTCCCTCCTTAAGCATTAACAAAGGTGGTGTGCTCC 1064
Db 961 CTTTCTAGGACTTTGGGGGCGGCCCTCCCTCCTTAAGCATTAACAAAGGTGGTGTGCTCC 1020
QY 1065 AGCTCAGCCCCAGGGGACAGATGCACTTTGGGGGTGAGGGGAGGTAATGACTCCATCG 1124
Db 1021 AGCTCAGCCCCAGGGGACAGATGCACTTTGGGGGTGAGGGGAGGTAATGACTCCATCG 1080
QY 1125 CACCTCAGTTTACGTCGACAGAGGCTCAGGTGACCCAGGCTTCACTGTCTCCCGCTCT 1184
Db 1081 CACCTCAGTTTACGTCGACAGAGGCTCAGGTGACCCAGGCTTCACTGTCTCCCGCTCT 1140
QY 1185 CCAGGAGCTTATCTTCGCCCATCTCCCAATAAGTGGGCGCTTGTGCTGTGAGGAAGAC 1244
Db 1141 CCAGGAGCTTATCTTCGCCCATCTCCCAATAAGTGGGCGCTTGTGCTGTGAGGAAGAC 1200
QY 1245 CAAGGCTCAGGGAAGATAGAGATATGAGATGGAGGGGAGGACAAAGGCGAGAG 1304
Db 1201 CAAGGCTCAGGGAAGATAGAGATATGAGATGGAGGGGAGGACAAAGGCGAGAG 1260
QY 1305 TAGGCTTAGTGTCTATCTCTGCGCTTACTTAACACCCCGCTGGAG 1350
Db 1261 TAGGCTTAGTGTCTATCTCTGCGCTTACTTAACACCCCGCTGGG 1306

RESULT 5

US-09-794-257-13
; Sequence 13, Application US/09794257
; Patent No. US20020098041
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel

; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020098041alel
; FILE OF INVENTION: Human G-Proteins
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 1116
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (124)...(699)
US-09-794-257-13

Query Match 40.6%; Score 1086; DB 10; Length 1116;
Best Local Similarity 99.5%; Pred. No. 4.6e-183;
Matches 1089; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 37 GGCACATGAGGGCAGCCAGGCGCGTTGCCACCCGGGATGGCGAGGCCCGGAGCGCT 96
Db 23 GCGTCCGACGCGGACGCCAGGCGCGTTGCCACCCGGGATGGCGAGGCCCGGAGCGCT 82
QY 97 CCCCGCCCTGCAGTCCGAGCTACGACCTCAGGGCAAGGTGATGCTTCTGGGAGACACAG 156
Db 83 CCCCGCCCTGCAGTCCGAGCTACGACCTCAGGGCAAGGTGATGCTTCTGGGAGACACAG 142
QY 157 GGGTCGGCAAAACATGTTTCTGTATCCAATTCAAAGACGGGGCTTCTGTCTCGGAACCT 216
Db 143 GCGTCGGCAAAACATGTTTCTGTATCCAATTCAAAGACGGGGCTTCTGTCTCGGAACCT 202
QY 217 TCATACCCACCGTCGCGATAGACTTCAGGAACAAGCTGGTGTGATGGGTGAGAG 276
Db 203 TCATACCCACCGTCGCGATAGACTTCAGGAACAAGGTGGTGTGATGGGTGAGAG 262
QY 277 TGAAGCTCAGATCTGGGACACCGCTGGGCGAGGAAGCGTTCCGAAGCGTCACCCATGCTT 336
Db 263 TGAAGCTCAGATCTGGGACACCGCTGGGCGAGAACGGTTCGGAAGGTCACCCATGCTT 322
QY 337 ATTACAGAGATGCTCAGGCGCTTGTCTGTGTATGACATFACCAACAATCTTCTTTCG 396
Db 323 ATTACAGAGATGCTCAGGCGCTTGTCTGTGTATGACATFACCAACAATCTTCTTTCG 382
QY 397 ACAACATCAGGCGCTGCTCAGTACATGAGATTCATGATGCCAGAGGAGCTGTGATCA 456
Db 383 ACAACATCAGGCGCTGCTCAGTACATGAGATTCATGATGCCAGAGGAGCTGTGATCA 442
QY 457 TGCTGTAGCAACAAGGCGGATATGAGCAGCGAAAGAGTGTCCGTTCCGAAGAGCGAG 516
Db 443 TGCTGTAGCAACAAGGCGGATATGAGCAGCGAAAGAGTGTCCGTTCCGAAGAGCGAG 502
QY 517 AGACCTTGGCCAGGAGTACGGTGTTCCTTCTGTGAGACCGCGGCAAGACTTGGCATGA 576
Db 503 AGACCTTGGCCAGGAGTACGGTGTTCCTTCTGTGAGACCGCGGCAAGACTTGGCATGA 562
QY 577 ATGTGGAGTTAGCTTCTTGGCCATCGCAAGGAACCTGAAATACCGGGCGCGGCATCAGG 636
Db 563 ATGTGGAGTTAGCTTCTTGGCCATCGCAAGGAACCTGAAATACCGGGCGCGGCATCAGG 622
QY 637 CGGATGAGCCAGCTTCCAGATCCGAGACTATGTAGTGTCCCAAGAAAGCGCTTCCAGCT 696
Db 623 CGGATGAGCCAGCTTCCAGATCCGAGACTATGTAGTGTCCCAAGAAAGCGCTTCCAGCT 682
QY 697 GCTGCTCTTCATGTGAATCCAGGGGCGCAGAGGAGGCTCTGGAGGACACAGGATGC 756
Db 683 GCTGCTCTTCATGTGAATCCAGGGGCGCAGAGGAGGCTCTGGAGGACACAGGATGC 742
QY 757 AGCTTCCCGCTCCAGGCGCTGCTTATTCGAAGAGGCTCAGCCAAATGGGAGAAAGATG 816
Db 743 AGCTTCCCGCTCCAGGCGCTGCTTATTCGAAGAGGCTCAGCCAAATGGGAGAAAGATG 802

QY 817 GAGGACTCACTGCACAGCCGCTTCCTAGCAGGAGCTATATCTCAACTCCTACTTGAGTT 876
|||||
Db 803 GAGGACTCACTGCACAGCCGCTTCCTAGCAGGAGCTATATCTCAACTCCTACTTGAGTT 862
|||||
QY 877 CTTGCGGCTCTCCCGCATCCACAGGAGGAGTAAACACTTAGCTTTTATTTAATAGTAC 936
|||||
Db 863 CTTGCGGCTCTCCCGCATCCACAGGAGGAGTAAACACTTAGCTTTTATTTAATAGTAC 922
|||||
QY 937 ATATTTAATACAAAAGCGCTGGATCCCAAAAACCGAGGCTGGAGCTAGTGG 996
|||||
Db 923 ATATTTAATACAAAAGCGCTGGATCCCAAAAACCGAGGCTGGAGCTAGTGG 982
|||||
QY 997 CCTTTTGTCTTTAGGACTTTGGGGGCGCGCTCCCTCCTAAGCATAACAAGGTGGT 1056
|||||
Db 983 CCTTTTGTCTTTAGGACTTTGGGGGCGCGCTCCCTCCTAAGCATAACAAGGTGGT 1042
|||||
QY 1057 GTTGCTCCAGCTCAGCCCCAGGGGACACAGATGACATTTGGGGGTAGGCGAGTAATGA 1116
|||||
Db 1043 GTTGCTCCAGCTCAGCCCCAGGGGACACAGATGACATTTGGGGGTAGGCGAGTAATGA 1102
|||||
QY 1117 CTCATCGCACCTT 1130
|||||
Db 1103 CTCATCGCACCTT 1116
|||||

RESULT 6

US-10-051-986-10
; Sequence 10, Application US/10051986
; Patent No. US20020146770A1
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; Tang, Y. Tom
; Lal, Preeti
; Guegler, Karl J.
; Corley, Neil C.
; Patterson, Chandra
; Batra, Sajeev
; Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; FILING DATE: 15-Jan-2002
; APPLICATION NUMBER: US/10/051.986
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 875 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: UCMCL5T01
; CLONE: 1528559
; SEQUENCE DESCRIPTION: SEQ ID NO: 10 :
US-10-051-986-10

Query Match 32.6% Score 873; DB 12; Length 875;
Best Local Similarity 100.0%; Pred No. 1.5e-145;
Matches 873; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 46 CGGECACGCCAGCGCGCTTGCCACCCGGGATGCGAGGCCGCCCGAGCGCTCCCGGCCCT 105
Db 1 CGGECACGCCAGCGCGCTTGCCACCCGGGATGCGAGGCCGCCCGAGCGCTCCCGGCCCT 60
QY 106 GCAGTCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCGCTCGGCA 165
Db 61 GCAGTCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCGCTCGGCA 120
QY 166 AAACATGTTTCTGATCCAATTCAAAGACGGGGCTTCTCTCGCGGAACCTTTCATAGCCA 225
Db 121 AAACATGTTTCTGATCCAATTCAAAGACGGGGCTTCTCTCGCGGAACCTTTCATAGCCA 180
QY 226 CCCTCGGCATAGACTTCAGGAACAAGGTGCTGACTGTGGATGGCGTGGAGTGAAGCTGC 285
Db 181 CCCTCGGCATAGACTTCAGGAACAAGGTGCTGACTGTGGATGGCGTGGAGTGAAGCTGC 240
QY 286 AGATCTGGGACACCGCTGGGAGGAACGGTTCCGAAGCGTCACCCATGCTTATTACAGAG 345
Db 241 AGATCTGGGACACCGCTGGGAGGAACGGTTCCGAAGCGTCACCCATGCTTATTACAGAG 300
QY 346 ATGCTCAGGCGCTTCTGCTGCTGATGACATCACCAACAATCTTTCGACAACTCA 405
Db 301 ATGCTCAGGCGCTTCTGCTGCTGATGACATCACCAACAATCTTTCGACAACTCA 360
QY 406 GGGCTGCTCAGTGAATTCATGATATGCCAGAGGAGCGTGGTGAATGATGCTGCTAG 465
Db 361 GGGCTGCTCAGTGAATTCATGATATGCCAGAGGAGCGTGGTGAATGATGCTGCTAG 420
QY 466 GCAACAAGGGGATATGAGCAGCGAAAAGATGATCGCTTCGGAAGACGGAGACCTTGG 525
Db 421 GCAACAAGGGGATATGAGCAGCGAAAAGATGATCGCTTCGGAAGACGGAGACCTTGG 480
QY 526 CCAGGAGTACGGTGTTCCTCTCGAGACAGCGCAACACTGGCATGAATGTGGAGT 585
Db 481 CCAGGAGTACGGTGTTCCTCTCGAGACAGCGCAACACTGGCATGAATGTGGAGT 540
QY 586 TAGCCTTTCTGGCCATCGCCAAAGAACTGAAATACCGGGCGGGCATCAGCGGATGAGC 645
Db 541 TAGCCTTTCTGGCCATCGCCAAAGAACTGAAATACCGGGCGGGCATCAGCGGATGAGC 600
QY 646 CCAGCTTTCAGATCCGAGACTATGTAGATGCCAGAGAAGCGCTCCAGCTGCTGCTCT 705
Db 601 CCAGCTTTCAGATCCGAGACTATGTAGATGCCAGAGAAGCGCTCCAGCTGCTGCTCT 660
QY 706 TCATGTGAATCCAGGGGAGAGGAGGCTCTGGAGGACACAGAGTGCAGCTTCCC 765
Db 661 TCATGTGAATCCAGGGGAGAGGAGGCTCTGGAGGACACAGAGTGCAGCTTCCC 720
QY 766 CTTCCAGGCGCTGCTTATTCAGAGGCTGAGCCAATGGGGAGAAAGATGAGGAGCTCA 825
Db 721 CTTCCAGGCGCTGCTTATTCAGAGGCTGAGCCAATGGGGAGAAAGATGAGGAGCTCA 780
QY 826 CTGCACAGCGCTTCTAGCAGGAGCTATCTCAACTCTACTGTGATTCCTGCGGTC 885
Db 781 CTGCACAGCGCTTCTAGCAGGAGCTATCTCAACTCTACTGTGATTCCTGCGGTC 840
QY 886 TCCCGCATCCACAGGGAGGGTAAACACTTAG 918
Db 841 TCCCGCATCCACAGGGAGGGTAAACACTTAG 873
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US-09-740-027-3
; Sequence 3, Application US/09740027
; Patent No. US20020076749A1
; GENERAL INFORMATION:
; APPLICANT: YE, Jane et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER COFACTOR
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER
; TITLE OF INVENTION: COFACTOR PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001052
; CURRENT APPLICATION NUMBER: US/09/740,027
; CURRENT FILING DATE: 2000-12-20
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 24707
; TYPE: DNA
; ORGANISM: Human
US-09-740-027-3

Query Match      25.6%; Score 683.4; DB 10; Length 24707;
Best Local Similarity 99.9%; Pred. No. 5.7e-112;
Matches 684; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1955 GTGTTCTGAAAAAAGAGAAATCCCTGGCTCCTGGAGCTGGTGGGAGACAAAGATTAAAGC 2014
DB 1 GTGTTCTGAAAAAAGAGAAATCCCTGGCTCCTGGAGCTGGTGGGAGACAAAGATTAAAGC 60

QY 2015 AAACCTCCCTGACATGTATCCCTTTGACCCCAAGCTCTGCCCTCCTCCCTGACCCACCAT 2074
DB 61 AAACCTCCCTGACATGTATCCCTTTGACCCCAAGCTCTGCCCTCCTCCCTGACCCACCAT 120

QY 2075 GCCTTTCTCTTTAACTTCTCAACACAGATACACAGGGCTAAACTGCTTTTACCTCCCTCCT 2134
DB 121 GCCTTTCTCTTTAACTTCTCAACACAGATACACAGGGCTAAACTGCTTTTACCTCCCTCCT 180

QY 2135 ACTGAGTCAGGTTAGTGGTGGGAGGTACCCATTTCCGAGTTTAAACCAATGCAATATGA 2194
DB 181 ACTGAGTCAGGTTAGTGGTGGGAGGTACCCATTTCCGAGTTTAAACCAATGCAATATGA 240

QY 2195 GTAAACAAGATCATCTGGGTATGCTGGGTAGAGAGAGGGTAGCAAGTTTCATGTGTC 2254
DB 241 GTAAACAAGATCATCTGGGTATGCTGGGTAGAGAGAGGGTAGCAAGTTTCATGTGTC 300

QY 2255 CTCCTTGGTGCATATCTCCAAAGCTCTGATCCCTGCCATGGGAAGTGGACAGAAACA 2314
DB 301 CTCCTTGGTGCATATCTCCAAAGCTCTGATCCCTGCCATGGGAAGTGGACAGAAACA 360

QY 2315 TGAGGTCAATGACCTGCAGGATCTTTACTGCAGCTCTGCCGGCTGGAGGGGAGAGGG 2374
DB 361 TGAGGTCAATGACCTGCAGGATCTTTACTGCAGCTCTGCCGGCTGGAGGGGAGAGGG 420

QY 2375 GAGGAAGAAGTATCGCTGCACATTTCTGAGGCTACTGCTATTTGCTTTCAAGGCAGAAAT 2434
DB 421 GAGGAAGAAGTATCGCTGCACATTTCTGAGGCTACTGCTATTTGCTTTCAAGGCAGAAAT 480

QY 2435 CTTGCTCTGAGCAGTCAGCGGCTCCAGTTTGGGCCCGATGAAGAAAGTTCTCCGTGCCCTC 2494
DB 481 CTTGCTCTGAGCAGTCAGCGGCTCCAGTTTGGGCCCGATGAAGAAAGTTCTCCGTGCCCTC 540

QY 2495 CCTCAGGACAGAGGAGGAGGCTGACATTTGCCAGTCTCTTCTGGGGCCCAAGGCAGGT 2554
DB 541 CCTCAGGACAGAGGAGGAGGCTGACATTTGCCAGTCTCTTCTGGGGCCCAAGGCAGGT 600

QY 2555 TGACAGAGATCCCAATCCATAGACAGCTCTGGGCTCTTGTGATTTTTCAGAAAT 2614
DB 601 TGACAGAGATCCCAATCCATAGACAGCTCTGGGCTCTTGTGATTTTTCAGAAAT 660

QY 2615 AAACGTCAGTATTTTGGAAAGCAA 2639
DB 661 AAACGTCAGTATTTTGGAAAGCAA 685

RESULT 8
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US-09-817-199A-24
; Sequence 24, Application US/09817199A
; Patent No. US20020142380A1
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001187
; CURRENT APPLICATION NUMBER: US/09/817,199A
; CURRENT FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-817-199A-24

Query Match      22.5%; Score 600.6; DB 10; Length 601;
Best Local Similarity 99.8%; Pred. No. 1.3e-97;
Matches 600; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1983 GCTCTGGAGCTGTGGGAGACAAAGATTAAAGCAACCTCCCTCGACATGTATCCCTTTGA 2042
DB 1 GCTCTGGAGCTGTGGGAGACAAAGATTAAAGCAACCTCCCTCGACATGTATCCCTTTGA 60

QY 2043 CCCCAGGCTCTGCCCTCCCTGACCCATGCGCTTCTTCTTAACTTCTCAACACAGAT 2102
DB 61 CCCCAGGCTCTGCCCTCCCTGACCCATGCGCTTCTTCTTAACTTCTCAACACAGAT 120

QY 2103 ACCAGGGCTAAACTGCTTTTACCTCCCTCCTTACTGAGTGTAGGTGGGAGGTC 2162
DB 121 ACCAGGGCTAAACTGCTTTTACCTCCCTCCTTACTGAGTGTAGGTGGGAGGTC 180

QY 2163 ACCCATTTCCGAGTTTAAACCAATGCAATATGATTAACAAAGATCATGTGGGTATGTCTG 2222
DB 181 ACCCATTTCCGAGTTTAAACCAATGCAATATGATTAACAAAGATCATGTGGGTATGTCTG 240

QY 2223 GGGTAGAGAGAGGGGTAGCAAGTTTCATGTCTCTCTTGGTCACATATCTCCCAAGGTC 2282
DB 241 GGGTAGAGAGAGGGGTAGCAAGTTTCATGTCTCTCTTGGTCACATATCTCCCAAGGTC 300

QY 2283 TGATCCCTGCCATGGGAAGTGGAGAGAAACATGAGGTGATGACCTGCAGGATCTTTAC 2342
DB 301 YGATCCCTGCCATGGGAAGTGGAGAGAAACATGAGGTGATGACCTGCAGGATCTTTAC 360

QY 2343 TGCAGCTCTGCCGGCTGGAGGGGAGAGGGGAGGAAGATATGCGCTGCACATTTCT 2402
DB 361 TGCAGCTCTGCCGGCTGGAGGGGAGAGGGGAGGAAGATATGCGCTGCACATTTCT 420

QY 2403 GAGGCTACTGCAATTTGCTTTCAAGGCAGAAATCTTGTCTTGAGCAGTACAGCGCTCCAGT 2462
DB 421 GAGGCTACTGCAATTTGCTTTCAAGGCAGAAATCTTGTCTTGAGCAGTACAGCGCTCCAGT 480

QY 2463 TTGGGGCCCGATGAAGAAAGTTCTCCGTGGGCTCCCTCAGCAGAGCAGGAGGAGGCTGAC 2522
DB 481 TTGGGGCCCGATGAAGAAAGTTCTCCGTGGGCTCCCTCAGCAGAGCAGGAGGAGGCTGAC 540

QY 2523 ATTGCCAGTCTCTCTGGGGCCCAAGGCAGGTTGACAGGAGATCCCAATCCATAGACGCT 2582
DB 541 ATTGCCAGTCTCTCTGGGGCCCAAGGCAGGTTGACAGGAGATCCCAATCCATAGACGCT 600

QY 2583 C 2583
DB 601 C 601

RESULT 9
US-09-794-257-15
; Sequence 15, Application US/09794257
; Patent No. US20020009804A1
; GENERAL INFORMATION:
```

; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020009804A1el
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 576
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-794-257-15

Query Match 21.5%; Score 576; DB 10; Length 576;
Best Local Similarity 100.0%; Pred. No. 2.9e-93;
Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 138 ATGCTTCTGGGAGACACAGGCGTCGGCAAAACATGTTTCTGTATCCAAATTCAAAGACGGG 197
Db 1 ATGCTTCTGGGAGACACAGGCGTCGGCAAAACATGTTTCTGTATCCAAATTCAAAGACGGG 60
Qy 198 GCCTTCCTGTCGGAACTTCATAGCACCGTCGGCATAGACTTTCAGGAACAAGGTGGT 257
Db 61 GCCTTCCTGTCGGAACTTCATAGCACCGTCGGCATAGACTTTCAGGAACAAGGTGGT 120
Qy 258 ACTGTGATGGCGTGGAGTGAAGCTGCAGATCTGGACACCGCTGGCAGGACGGTTC 317
Db 121 ACTGTGATGGCGTGGAGTGAAGCTGCAGATCTGGACACCGCTGGCAGGAAACGGTTC 180
Qy 318 CGAAGCGTCAACCCATGCTTATTACAGAGATGCTCAGGCGCTTGTCTGTCTATGACATC 377
Db 181 CGAAGCGTCAACCCATGCTTATTACAGAGATGCTCAGGCGCTTGTCTGTCTATGACATC 240
Qy 378 ACCAACAATCTTCTTCGACAACATCAGGCGCTGGCTCACTGAGATTCATGATATGCC 437
Db 241 ACCAACAATCTTCTTCGACAACATCAGGCGCTGGCTCACTGAGATTCATGATATGCC 300
Qy 438 CAGAGGACGCTGGTGTATCATCTCTAGGCAACAAGCGGATATGAGCAGGCAAGAGTG 497
Db 301 CAGAGGACGCTGGTGTATCATCTCTAGGCAACAAGCGGATATGAGCAGGCAAGAGTG 360
Qy 498 ATCCGTTCCGAAGACGGAGACACCTTGGCCAGGAGTACGGTGTTCCTTCTGGAGACC 557
Db 361 ATCCGTTCCGAAGACGGAGACACCTTGGCCAGGAGTACGGTGTTCCTTCTGGAGACC 420
Qy 558 AGCCCAAGACTGCGATGAATGTGGAGTTAGCCCTTCTGGCCATCGCCAAAGAACTGAAA 617
Db 421 AGCCCAAGACTGCGATGAATGTGGAGTTAGCCCTTCTGGCCATCGCCAAAGAACTGAAA 480
Qy 618 TACCGGCGCGGCATCAGCGCGATGACCCAGCTTCCAGATCCGAGACTATGTAGATCC 677
Db 481 TACCGGCGCGGCATCAGCGCGATGAGCCAGCTTCCAGATCCGAGACTATGTAGATCC 540
Qy 678 CAGAAGAAGCGCTCCAGCTGCTGCTTTCATGTGA 713
Db 541 CAGAAGAAGCGCTCCAGCTGCTGCTTTCATGTGA 576

RESULT 10
US-09-817-199a-25
; Sequence 25, Application US/09817199a
; Patent No. US20020142380A1
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
; NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001187
; CURRENT APPLICATION NUMBER: US/09/817,199a
; CURRENT FILING DATE: 2001-03-27

; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-817-199a-25
Query Match 21.4%; Score 573; DB 10; Length 601;
Best Local Similarity 99.7%; Pred. No. 9.7e-93;
Matches 573; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 2065 GACCACCCATGCCCTTTCCCTTTAACTTCTCAAAACAGATACACAGGCGCTTAAACTGCTTTAC 2124
Db 1 GACCACCCATGCCCTTTCCCTTTAACTTCTCAAAACAGATACACAGGCGCTTAAACTGCTTTAC 60
Qy 2125 CTCCTCTCTACTAGTCAGGTTAGGTGGGAGGTCAACCATTTTCGAGTTAAACCAA 2184
Db 61 CTCCTCTCTACTAGTCAGGTTAGGTGGGAGGTCAACCATTTTCGAGTTAAACCAA 120
Qy 2185 TGCATATGACTAAACAAAGTCATGTGGGTATGCTGGGTAGAGAGGGGTAGCAAG 2244
Db 121 TGCATATGACTAAACAAAGTCATGTGGGTATGCTGGGTAGAGAGGGGTAGCAAG 180
Qy 2245 TTCATGTCTCTCTCTGTCACATATCTCCAAAGCTCTGATCCCTGCCATGGGAAGTGG 2304
Db 181 TTCATGTCTCTCTCTGTCACATATCTCCAAAGCTCTGATCCCTGCCATGGGAAGTGG 240
Qy 2305 ACAGAAACATGAGGTCTATGACCTGCAGGCATCTTTACTGAGCTCTCCGCGCTGGAGG 2364
Db 241 ACAGAAACATGAGGTCTATGACCTGCAGGCATCTTTACTGAGCTCTCCGCGCTGGAGG 300
Qy 2365 GGGAGAGGGGAGGAAGATATGGCTGCACATTTCTGAGGCTACTGCAATTTGCTTTTCA 2424
Db 301 RGGAGAGGGGAGGAAGATATGGCTGCACATTTCTGAGGCTACTGCAATTTGCTTTTCA 360
Qy 2425 AGGCAGAAATCTGCTCTGAGCAGTCAAGCGCTCAGTTTGGGCCCGATAAGAAAGTTCT 2484
Db 361 AGGCAGAAATCTGCTCTGAGCAGTCAAGCGCTCAGTTTGGGCCCGATAAGAAAGTTCT 420
Qy 2485 CCGTGGCTCTCCTCAGGAGAGGAGGAGGCTGACATTCGCCAGTCTCTCTCTGGGGCC 2544
Db 421 CCGTGGCTCTCCTCAGGAGAGGAGGAGGCTGACATTCGCCAGTCTCTCTCTGGGGCC 480
Qy 2545 CAAGCAGGTTTGCAGGAGATCCAAATCCCATAGACAGCTCTGGGCCCTCTTGCAATTTGAGTT 2604
Db 481 CAAGCAGGTTTGCAGGAGATCCAAATCCCATAGACAGCTCTGGGCCCTCTTGCAATTTGAGTT 540
Qy 2605 TTTCAGAAATTAACATGTCAGTATTTTGGAAAGCAAA 2639
Db 541 TTTCAGAAATTAACATGTCAGTATTTTGGAAAGCACA 575

RESULT 11
US-09-867-550-1811
; Sequence 1811, Application US/09867550
; Patent No. US20020082206A1
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Mehraban, Fuad,
; APPLICANT: Conley, Pamela
; APPLICANT: Law, Debbie
; APPLICANT: Topper, James
; TITLE OF INVENTION: No. US20020082206A1el Polynucleotides from Atherogenic Cells a
; FILE REFERENCE: 21402-013 (Cura-313)
; CURRENT APPLICATION NUMBER: US/09/867,550
; CURRENT FILING DATE: 2001-09-20
; PRIOR APPLICATION NUMBER: USSN 60/208,427
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 2125
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1811

; LENGTH: 447									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
; FEATURE:									
; NAME/KEY: misc_feature									
; LOCATION: (1)									
; OTHER INFORMATION: Wherein n is one of a or t or c or g									
US-09-867-550-1811									
Query Match									
Best Local Similarity 16.6%; Score 443.4; DB 10; Length 447;									
Matches 444; Conservative 0; Mismatches 1; Indels 0; Gaps 0;									
QY	11	GGCCGGCAGTCTCTCGTCCAGGACATGACGGCAGCCAGGCGCGTTGCCAC	70						
Db	3	GGCCAGCACTGCTCAGCTCTCGTCCAGGACATGACGGCAGCCAGGCGCGTTGCCAC	62						
QY	71	CCGGATGGGAGGCCCGGAGCGTCCCGCCCTGCAGTCCGAGCTACGACTCACGGG	130						
Db	63	CCGGATGGGAGGCCCGGAGCGCTCCCGCCCTGCAGTCCGAGCTACGACTCACGGG	122						
QY	131	CAAGTGATGCTTCTGGGACACAGCGGCTCGGCAAAACATGTTCTGATCCAATCAA	190						
Db	123	CAAGTGATGCTTCTGGGACACAGCGCTCGGCAAAACATGTTCTGATCCAATCAA	182						
QY	191	AGACGGGCGCTTCTGTCGGAACTTCATAGCCACCGCTCGGCATAGACTTCAGGAACAA	250						
Db	183	AGACGGGCGCTTCTGTCGGAACTTCATAGCCACCGCTCGGCATAGACTTCAGGAACAA	242						
QY	251	GGTGACTGTGGATGGCTGAGAGTGAAGCTGCAGATCTGGGACACCGCTGGGCAGGA	310						
Db	243	GGTGACTGTGGATGGCTGAGAGTGAAGCTGCAGATCTGGGACACCGCTGGGCAGGA	302						
QY	311	ACGTTCCGAAGCTACCCATGCTTATTACAGAGTGTTCAGGCGCTTGTCTGTGTA	370						
Db	303	ACGTTCCGAAGCTACCCATGCTTATTACAGAGTGTTCAGGCGCTTGTCTGTGTA	362						
QY	371	TGACATCACCACAAATCTTCTTTCGACAACTCAGGCGCTGGCTCACTGAGATTCA	430						
Db	363	TGACATCACCACAAATCTTCTTTCGACAACTCAGGCGCTGGCTCACTGAGATTCA	422						
QY	431	GTATGCCAGAGGACGTGGTGATC	455						
Db	423	GTATGCCAGAGGACGTGGTGATC	447						
RESULT 12									
US-09-764-868-75									
; Sequence 75, Application US/09764868									
; Patent No. US20020168711A1									
; GENERAL INFORMATION:									
; APPLICANT: Rosen et al.									
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies									
; FILE REFERENCE: PT232									
; CURRENT APPLICATION NUMBER: US/09764,868									
; CURRENT FILING DATE: 2001-01-17									
; Prior application data removed - refer to PALM or file wrapper									
; NUMBER OF SEQ ID NOS: 1510									
; SOFTWARE: PatentIn Ver. 2.0									
; SEQ ID NO 75									
; LENGTH: 964									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
; FEATURE:									
; NAME/KEY: SITE									
; LOCATION: (806)									
; OTHER INFORMATION: n equals a,t,g, or c									
; NAME/KEY: SITE									
; LOCATION: (898)									
; OTHER INFORMATION: n equals a,t,g, or c									
; NAME/KEY: SITE									
; LOCATION: (918)									
; OTHER INFORMATION: n equals a,t,g, or c									
; NAME/KEY: SITE									
; LOCATION: (924)									
; OTHER INFORMATION: n equals a,t,g, or c									
; NAME/KEY: SITE									
; LOCATION: (952)									
; OTHER INFORMATION: n equals a,t,g, or c									
; NAME/KEY: SITE									
; LOCATION: (959)									
; OTHER INFORMATION: n equals a,t,g, or c									
US-09-764-868-75									
Query Match									
Best Local Similarity 7.8%; Score 209.4; DB 9; Length 964;									
Matches 285; Conservative 0; Mismatches 126; Indels 0; Gaps 0;									
QY	291	TGGGACACCGCTGGCAGGAAGCTTCCGAAGCGCTCACCACAAATCTTCTTGGACAACATCAGGCGC	350						
Db	3	TGGGACACAGCTGGTCAGGAGCGGTTCGCGAGTGTTCACCATGCTACTACGGGATGCT	62						
QY	351	CAGGCTTGTCTCTGTATGACATCACCACAAATCTTCTTGGACAACATCAGGCGC	410						
Db	63	CATGCTCTGCTCTACGATGTCACCAACAAAGGCTCTCTTGACAACATCAGGCGC	122						
QY	411	TGGCTCAGTATGATTCATGATATGCCAGAGGACGTGTTCATCATGCTGTAGCAAC	470						
Db	123	TGGCTGACCGAGATCCACGAGTACCCACGACGTGGGCGCTCATGCTGTGGGGAAC	182						
QY	471	AAGCGGATATCAGCAGCAAGAAAGCTGATCCCTCCGAAGACGGAGACCTTGGCCAGG	530						
Db	183	AAGTGGACTCTGCCCATGAGCGTGTGTGAAGAGGAGGACGGGAGAGTGGCCAAAG	242						
QY	531	GAGTACGGTGTTCCTTCTGGAGACCGCCAGACTGGCATGAATGTGGATTAGCC	590						
Db	243	GAGTATGGACTGCCCTTCATGGAGACCAAGCGCCCAAGCGGCTCAACGTGGACTTGGCC	302						
QY	591	TTCCTGGCATCGCAAGAACTGAAATACCGCGCGGCGCATCAGCGGATCAGGCCACAGC	650						
Db	303	TTCACAGCATAGCAAGAGGATTGAAGAGCGCTCCATGAAGGCTCCCAAGGCTCCGAGCGCGC	362						
QY	651	TTCACAGATCCGAGACTATGTAGAGTCCCAAGAAAGCGCTCCAGCTGTGTC	701						
Db	363	TTCGCGCTGCATGATTACGTTAAGAGGAGGCTCGAGGGCGCTCCTGCTGTC	413						
RESULT 13									
US-09-764-877-2275/c									
; Sequence 2275, Application US/09764877									
; Patent No. US20020147140A1									
; GENERAL INFORMATION:									
; APPLICANT: Rosen et al.									
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies									
; FILE REFERENCE: PC005									
; CURRENT APPLICATION NUMBER: US/09/764,877									
; CURRENT FILING DATE: 2001-01-17									
; Prior application data removed - refer to PALM or file wrapper									
; NUMBER OF SEQ ID NOS: 4031									
; SOFTWARE: PatentIn Ver. 2.0									
; SEQ ID NO 2275									
; LENGTH: 21833									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
US-09-764-877-2275									
Query Match									
Best Local Similarity 74.1%; Score 200.6; DB 10; Length 21833;									
Matches 254; Conservative 0; Mismatches 89; Indels 0; Gaps 0;									
QY	1525	TTTTGTTTTTTTATTTTGTGAAATGGAGTCTGCTTCTGTCGCCAGGCTGAGTGCAATAG	1584						
Db	5032	TTTTTTTTTTTTTTTCTGAGATGGAGTCTCGCTCTGTCGCCAGGCTGGAATGCAATGG	4973						
QY	1585	TGCAATCTCCGCTCAGTACAACTCCACTCCCTCCGCGGCTCAAGGATCTCCCACTCAG	1644						

Db 4972 TGCANTCTGGCTCACTGCACACCTCCACCCTCTGGGTTCAGTGATCTCCCTGCCCTCAG 4913
Qy 1645 CCGCCGAAGTAGCTGGGACTATAGGTGTGTACCATCAACAGCTGGCTAAATTTTGTATTTT 1704
Db 4912 CTCCCAGGTAGCTGGGATTACAGGCCGCCACACACAGCCAGCTAAATTTTGTATTTT 4853
Qy 1705 TTGTAGACACAGGTTTTCGCATGTTGCCAGGCTGTCTTGAATTCCTGAGCTCAAGCA 1764
Db 4852 TAGTAGACACAGGTTTTCACAGGTTGGCCAGGCTGTGAATCTCTGACCTCAGATG 4793
Qy 1765 ACCTGCCGCTGGCTCCCAAGTACTGGGATTACACGAGNAGGACCATGCCAGG 1824
Db 4792 ATCCACCTGGCTGGCCCTCCCAAGTCTGGGATTACAGGCGTAGCCAGCTGCCCGC 4733
Qy 1825 CTAGATGTCTTATCCCAATCTTTGGCAGGATGAGCTCC 1867
Db 4732 CCTGGAATTTCTATGATATCTTTTGATGAAAAGGCCCTCC 4690

RESULT 14
US-09-764-877-3373/c
; Sequence 3373, Application US/09764877
; Patent No. US20020147140A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005
; CURRENT APPLICATION NUMBER: US/09/764,877
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3373
; LENGTH: 1130
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-877-3373

Query Match 7.5%; Score 199.8; DB 10; Length 1130;
Best Local Similarity 77.1%; Pred. No. 5.8e-27;
Matches 243; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

Qy 1516 GGAAGAAGATTTTGTATTTTATTTTGAATGGAGTCTGTTCTGTGCGCCAGGCTGAG 1575
Db 673 GTAATTAATTTTCTTTTATTTTGTGAGACAGGGCTAGCTCTGACACCCAGGCTGAA 614
Qy 1576 GTGCAGTAGTGCATCTCCGCTCACTACACCTCCCTGCGGCTCAAGCGATCCTC 1635
Db 613 GTGCAGTGTGTGATCTCAGCTCACTGCAACCTCTGCGCTTCTGGAAGTATCCTC 554
Qy 1636 CCACCTCAGCGCGGAAGTAGCTGGGACTATAGTGTGTACCATCAACCTGGCTAATTT 1695
Db 553 CCACCTCAGGCTCTAAGTAGTGGGACTACAATGACACACACCATCGGTAAATTT 494
Qy 1696 TTGTATTTTGTAGACACAGGTTTTCGCATGTTGCCAGGCTGTGCTTCAATTCCTGA 1755
Db 493 TTGTATTTTGTAGACACAGGTTTTCGCATGTTGCCAGGCTGTGCTTCAATTCCTG 434
Qy 1756 GCTCAAGCAACCTGCGCGCTCCGCTCCCAAGTACTGGGATTACAGCAGAGGCA 1815
Db 433 GCTCAAGCGATCGCGCCACCTTGGCTCCCAAGTACTGGGATTACAGCAGAGGCA 374
Qy 1816 ATGCCAGGCTAGAT 1830
Db 373 ATGGCTGGCGCAAT 359

RESULT 15
US-09-764-877-3236
; Sequence 3236, Application US/09764877
; Patent No. US20020147140A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005
; CURRENT APPLICATION NUMBER: US/09/764,877
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3236
; LENGTH: 15745
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-877-3236

Query Match 7.4%; Score 198.6; DB 10; Length 15745;
Best Local Similarity 76.7%; Pred. No. 1.3e-26;
Matches 243; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

Qy 1514 TAGAAAAGAGTTTGTATTTTATTTTGAATGGAGTCTGTTCTGTGCGCCAGGCTG 1573
Db 6486 TAAGTTACTAACATTTTATTTTGTGAGACAGGATCTTGTCTGTCAACCCAGGCTG 6545
Qy 1574 AGTGGAGTAGTGAATCTCGGCTCACTACACCTCCACTCCCTGGGGCTCAAGCGATCC 1633
Db 6546 GAGTGCAGTGGTAGCATCTCAGCTCACTGTAGCCTTAACCCACACAGGCTTATCGCTCC 6605
Qy 1634 TCCACCTCAGCGCGGAAGTAGCTGGGACTATAGTGTGTACCATCAACCTGGCTAAT 1693
Db 6606 TCCACCTCAGCGCGGAAGTAGTGTGGAATATAGTGTGATACCATCAACCTGGCTAAT 6665
Qy 1694 TTTTGTATTTTGTAGACACAGGTTTTCGCATGTTGCCAGGCTGGTCTTGAATTCCT 1753
Db 6666 TTTTGTATTTTGTAGAGGAGGTTTTCGCCTGTGCGCCAGGCTGGTCTTGAATTCCT 6725
Qy 1754 GAGCTCAAGCAACCTGCGCGCTCCGCTCCCAAGTACTGGGATTACACCGCAAGGCA 1813
Db 6726 GAGCTCAAGCAATCTCCACCTCAGCTCCCAAGGTTTGGGATTACAGGTTGAGGCA 6785
Qy 1814 CCATGCCCGAGGCTAGAT 1830
Db 6786 CTGCACCGCGCAAGTT 6802

Search completed: January 16, 2003, 06:32:20
Job time : 231 secs

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: January 16, 2003, 05:31:00 ; Search time 24 seconds
(without alignments)
273.388 Million cell updates/sec

Title: US-09-817-199A-2

Perfect score: 1150

Sequence: 1 MTGTPGAVATRDGEAPERSP.....FQIRDYVESQKKRSCCSEF 223

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued_Patents_AA:*
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 - 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
 - 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
 - 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
 - 5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
 - 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	977	85.0	191	4	US-09-075-454-3
2	745	64.8	190	2	US-08-824-873-3
3	745	64.8	190	3	US-09-198-184-3
4	666	57.9	190	2	US-08-824-873-1
5	666	57.9	190	3	US-09-198-184-1
6	513.5	44.7	207	2	US-08-824-873-4
7	513.5	44.7	207	3	US-09-198-184-4
8	504	43.8	205	2	US-08-531-525-25
9	504	43.8	205	2	US-08-718-270A-25
10	486	42.3	207	2	US-08-531-525-35
11	486	42.3	207	2	US-08-718-270A-35
12	478.5	41.6	198	2	US-08-531-525-51
13	478.5	41.6	198	2	US-08-718-270A-51
14	478.5	41.6	215	2	US-08-531-525-10
15	478.5	41.6	215	2	US-08-718-270A-10
16	472	41.0	201	2	US-08-916-901-8
17	472	41.0	201	2	US-09-154-602-8
18	471	41.0	202	2	US-08-531-525-14
19	471	41.0	202	2	US-08-718-270A-14
20	468	40.7	201	2	US-08-916-901-3
21	468	40.7	201	4	US-09-154-602-3
22	458	39.8	201	2	US-08-531-525-13
23	458	39.8	201	2	US-08-718-270A-13
24	450.5	39.2	194	2	US-08-531-525-34
25	450.5	39.2	194	2	US-08-718-270A-34
26	448.5	39.0	212	4	US-09-399-913-67
27	446.5	38.8	212	2	US-08-531-525-18

Sequence 18, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 17, Appl
Sequence 17, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 12, Appl
Sequence 12, Appl
Sequence 8, Appl
Sequence 15, Appl
Sequence 52, Appl
Sequence 52, Appl
Sequence 52, Appl
Sequence 21, Appl
Sequence 11, Appl
Sequence 11, Appl

ALIGNMENTS

RESULT 1

US-09-075-454-3

; Sequence 3, Application US/09075454

; Patent No. 6391580

; GENERAL INFORMATION:

; APPLICANT: Hillman, Jennifer L.

; APPLICANT: Tang, Y. Tom

; APPLICANT: Lal, Preeti

; APPLICANT: Guegler, Karl J.

; APPLICANT: Corley, Neil C.

; APPLICANT: Patterson, Chandra

; APPLICANT: Batra, Sajeev

; APPLICANT: Baughn, Mariah R.

; TITLE OF INVENTION: RAS PROTEINS

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

; STREET: 3174 Porter Drive

; CITY: Palo Alto

; STATE: CA

; COUNTRY: US

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/075,454

; FILING DATE: Herewith

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/766,551

; FILING DATE: DECEMBER 12, 1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Certone, Michael C.

; REGISTRATION NUMBER: 39,132

; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 650-855-0555

; TELEFAX: 650-845-4166

; TELEX:

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 151 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: UCMCL5T01


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Db 61 RSVTHAYRDAHALLLYDITNKDSFNIQAWLTEIQAQDVVLMLLGNKVDSTQERV 120
QY 153 IRSEGGTTLAREYGVPLETSKATGMNVELAFIAIAKELKYRAGHQADEPSFQIRDYVES 212
Db 121 VKREDGEKLAKEYGLPMPETSAKSLGNVDLAFTAIKELKORSTKAPSEPRFRLHDYVKR 180
QY 213 QKRRSSCC 220
Db 181 EGRGVSCC 188

RESULT 4
US-08-824-873-1
: Sequence 1, Application US/08824873
: Patent No. 5843717
: GENERAL INFORMATION:
: APPLICANT: Hillman, Jennifer L.
: APPLICANT: Guegler, Karl
: TITLE OF INVENTION: NOVEL RAB PROTEIN
: NUMBER OF SEQUENCES: 4
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Incyte Pharmaceuticals, Inc.
: STREET: 3174 Porter Drive
: CITY: Palo Alto
: STATE: CA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FastSeq for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/824,873
: FILING DATE: Filed Herewith
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: REFERENCE/DOCKET NUMBER: PF-0240 US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 190 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: PANCNOT04
: CLONE: 738957
US-08-824-873-1

Query Match 57.9%; Score 666; DB 2; Length 190;
Best Local Similarity 67.0%; Pred. No. 2e-66;
Matches 126; Conservative 25; Mismatches 37; Indels 0; Gaps 0;

QY 33 MLLGDTGVGKTCFLIQKDGAFSLSGTFTIATVGDIFRNKVVTVDGVVRVKLQIWDTAGOERF 92
Db 1 MLVGDSGVGKTCFLIGATQGCWCFPGGDLHLHRSIDFRNKVLDVGVKVKLQMWDTAGOERF 60
QY 93 RSVTHAYRDAQALLLLYDITNKSSFDNIIRAWLTEIHEYAQRDVVIMLLGNKADMSSERV 152
Db 61 RSVTHAYRDAHALLLYDVTNKASFDNIQAWLTEIHEYAQRDVVIMLLGNKVDSAHERV 120
QY 153 IRSEGGTTLAREYGVPLETSKATGMNVELAFIAIAKELKYRAGHQADEPSFQIRDYVES 212
Db 121 VKREDGEKLAKEYGLPMPETSAKSLGNVDLAFTAIKELKORSTKAPSEPRFRLHDYVKR 180
QY 213 QKRRSSCC 220
Db 181 EGRGVSCC 188
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QY 213 QKRRSSCC 220
Db 181 EGRGVSCC 188

RESULT 5
US-09-198-184-1
: Sequence 1, Application US/09198184
: Patent No. 6010859
: GENERAL INFORMATION:
: APPLICANT: Hillman, Jennifer L.
: APPLICANT: Guegler, Karl
: TITLE OF INVENTION: NOVEL RAB PROTEIN
: NUMBER OF SEQUENCES: 4
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Incyte Pharmaceuticals, Inc.
: STREET: 3174 Porter Drive
: CITY: Palo Alto
: STATE: CA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FastSeq for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/198,184
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/824,873
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: REFERENCE/DOCKET NUMBER: PF-0240 US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 190 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: PANCNOT04
: CLONE: 738957
US-09-198-184-1
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Query Match 57.9%; Score 666; DB 3; Length 190;
Best Local Similarity 67.0%; Pred. No. 2e-66;
Matches 126; Conservative 25; Mismatches 37; Indels 0; Gaps 0;

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QY 33 MLLGDTGVGKTCFLIQKDGAFSLSGTFTIATVGDIFRNKVVTVDGVVRVKLQIWDTAGOERF 92
Db 1 MLVGDSGVGKTCFLIGATQGCWCFPGGDLHLHRSIDFRNKVLDVGVKVKLQMWDTAGOERF 60
QY 93 RSVTHAYRDAQALLLLYDITNKSSFDNIIRAWLTEIHEYAQRDVVIMLLGNKADMSSERV 152
Db 61 RSVTHAYRDAHALLLYDVTNKASFDNIQAWLTEIHEYAQRDVVIMLLGNKVDSAHERV 120
QY 153 IRSEGGTTLAREYGVPLETSKATGMNVELAFIAIAKELKYRAGHQADEPSFQIRDYVES 212
Db 121 VKREDGEKLAKEYGLPMPETSAKSLGNVDLAFTAIKELKORSTKAPSEPRFRLHDYVKR 180
QY 213 QKRRSSCC 220
Db 181 EGRGVSCC 188
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RESULT 6
US-08-824-873-4
; Sequence 4, Application US/08824873
; Patent No. 5843717
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/824,873
; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0240 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 207 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 234746
; US-08-824-873-4

Query Match 44.7%; Score 513.5; DB 2; Length 207;
Best Local Similarity 50.0%; Pred. No. 2.4e-49;
Matches 99; Conservative 41; Mismatches 53; Indels 5; Gaps 2;

QY 25 SYDLTGKVMLLGDTGVGKTCFLIQKDGAFSLGTFIATVGDIFRNKVVTVDGVVRVKLIQW 84
Db 4 TYDYLKLLLLIGDSGVGKTCVLFRESEDAF-NSTFTSTIGIDFKIRTIELDGKRIKLIQW 62
QY 85 DTAGQERFRSVTHAYYRDAQALLLYDITNKSFDNIRAWLTIHEHYAQRDVYVIMLLGNK 144
Db 63 DTAGQERFRITTTAYYRGAMGIMLVYDITNEKSPDNIRNIRNIEEHASADVEKMILGNK 122
QY 145 ADMSSERVISEDGETLAREYGVFPFLETSAKTMNNVELAFLATAKELKYRAGHQAD- --- 200
Db 123 CDVNDKRVQSKERGEKALDYGIKFMETSAKANINVENAFFTLARDIKAKMDKKLGNSP 182
QY 201 EPSFQIRDYVESQKKRSS 218
Db 183 QGSNOGVKITPPDQKKRSS 200

RESULT 7
US-09-198-184-4
; Sequence 4, Application US/09198184
; Patent No. 6010859
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.

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; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/198,184
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/824,873
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0240 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 207 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 234746
; US-09-198-184-4

Query Match 44.7%; Score 513.5; DB 3; Length 207;
Best Local Similarity 50.0%; Pred. No. 2.4e-49;
Matches 99; Conservative 41; Mismatches 53; Indels 5; Gaps 2;

QY 25 SYDLTGKVMLLGDTGVGKTCFLIQKDGAFSLGTFIATVGDIFRNKVVTVDGVVRVKLIQW 84
Db 4 TYDYLKLLLLIGDSGVGKTCVLFRESEDAF-NSTFTSTIGIDFKIRTIELDGKRIKLIQW 62
QY 85 DTAGQERFRSVTHAYYRDAQALLLYDITNKSFDNIRAWLTIHEHYAQRDVYVIMLLGNK 144
Db 63 DTAGQERFRITTTAYYRGAMGIMLVYDITNEKSPDNIRNIRNIEEHASADVEKMILGNK 122
QY 145 ADMSSERVISEDGETLAREYGVFPFLETSAKTMNNVELAFLATAKELKYRAGHQAD- --- 200
Db 123 CDVNDKRVQSKERGEKALDYGIKFMETSAKANINVENAFFTLARDIKAKMDKKLGNSP 182
QY 201 EPSFQIRDYVESQKKRSS 218
Db 183 QGSNOGVKITPPDQKKRSS 200

RESULT 8
US-08-531-525-25
; Sequence 25, Application US/08531525
; Patent No. 5840683
; GENERAL INFORMATION:
; APPLICANT: Hlavka, Joseph J.
; APPLICANT: Pincus, Matthew R.
; APPLICANT: No. 5840683le, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action
; OF P21 Ras

```

NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Greenlee and Winner, P.C.
STREET: 5370 Manhattan Circle, Suite 201
CITY: Boulder
STATE: Colorado
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/531,525
FILING DATE: 21-SEP-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 37-94
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 205 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE: Canis familiaris
ORGANISM: Canis familiaris
US-08-531-525-25

Query Match 43.8%; Score 504; DB 2; Length 205;
Best Local Similarity 50.0%; Pred. No. 2.7e-48;
Matches 99; Conservative 41; Mismatches 52; Indels 6; Gaps 3;
QY 25 SYDLTKVMLLGGTGVGKTCFLIQDGAFLSGTFTATVGDPRNKVTVVGVVVKLQIW 84
DB 3 TYDYLKLLIGDSGVGKTCVLFREFSEDAP-NSTFTSTIGDIFKRTIEDGKRKRLQIW 61
QY 85 DTAGQERFRSVTHAYYRDAQALLLLDYTNKSSFDNIRAWLTHEHYAQRDVVIMLGNK 144
DB 62 DTAGQERFRITTYAYR-AMGIMLVYDITNEKSFDMIRNIRNIEEHASADVEKMILGNK 120
QY 145 ADMSSERSVIRSEDETALREYGVPPFLETSAKTGMNVELAFATAKELKYRAGHQAD---- 200
DB 121 CDVNDKRVSKERGEKALDYGKFMETSASAKANINVENAFFTLARDIKAKMKDKLEGNSP 180
QY 201 EPSFQIRDYVESOKKRSS 218
DB 181 QGSNQGKVTTPDQQRSS 198

RESULT 9
US-08-718-270A-25
Sequence 25, Application US/08718270A
Patent No. 5910478
GENERAL INFORMATION:
APPLICANT: Hlavka, Joseph J.
APPLICANT: Pincus, Matthew R.
APPLICANT: No. 5910478le, John F.
APPLICANT: Abajian, Henry B.
APPLICANT: Kende, Andrew S.
TITLE OF INVENTION: Peptidomimetics Inhibiting
the Oncogenic Action of P21 Ras
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
STREET: 5370 Manhattan Circle, Suite 201

CITY: Boulder
STATE: Colorado
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/718,270A
FILING DATE: 20-SEP-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/531,525
FILING DATE: 21-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,091
FILING DATE: 21-SEP-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 78-95
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 205 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE: Canis familiaris
ORGANISM: Canis familiaris
US-08-718-270A-25
Query Match 43.8%; Score 504; DB 2; Length 205;
Best Local Similarity 50.0%; Pred. No. 2.7e-48;
Matches 99; Conservative 41; Mismatches 52; Indels 6; Gaps 3;
QY 25 SYDLTKVMLLGGTGVGKTCFLIQDGAFLSGTFTATVGDPRNKVTVVGVVVKLQIW 84
DB 3 TYDYLKLLIGDSGVGKTCVLFREFSEDAP-NSTFTSTIGDIFKRTIEDGKRKRLQIW 61
QY 85 DTAGQERFRSVTHAYYRDAQALLLLDYTNKSSFDNIRAWLTHEHYAQRDVVIMLGNK 144
DB 62 DTAGQERFRITTYAYR-AMGIMLVYDITNEKSFDMIRNIRNIEEHASADVEKMILGNK 120
QY 145 ADMSSERSVIRSEDETALREYGVPPFLETSAKTGMNVELAFATAKELKYRAGHQAD---- 200
DB 121 CDVNDKRVSKERGEKALDYGKFMETSASAKANINVENAFFTLARDIKAKMKDKLEGNSP 180
QY 201 EPSFQIRDYVESOKKRSS 218
DB 181 QGSNQGKVTTPDQQRSS 198
RESULT 10
US-08-531-525-35
Sequence 35, Application US/08531525
Patent No. 5840683
GENERAL INFORMATION:
APPLICANT: Hlavka, Joseph J.
APPLICANT: Pincus, Matthew R.
APPLICANT: No. 5840683le, John F.
APPLICANT: Abajian, Henry B.
APPLICANT: Kende, Andrew S.
TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action
of P21 Ras
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:

ADDRESSEE: Greenlee and Winner, P.C.
 STREET: 5370 Manhattan Circle, Suite 201
 CITY: Boulder
 STATE: Colorado
 COUNTRY: US
 ZIP: 80303
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/531,525
 FILING DATE: 21-SEP-1995
 CLASSIFICATION: 530
 ATTORNEY/AGENT INFORMATION:
 NAME: Ferber, Donna M.
 REGISTRATION NUMBER: 33,878
 REFERENCE/DOCKET NUMBER: 37-94
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (303) 499-8080
 TELEFAX: (303) 499-8089
 INFORMATION FOR SEQ ID NO: 35:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 207 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ORIGINAL SOURCE:
 ORGANISM: Discopyge ommata
 US-08-531-525-35

Query Match 42.3%; Score 486; DB 2; Length 207;

Best Local Similarity 48.1%; Pred. No. 2.8e-46;
 Matches 101; Conservative 44; Mismatches 49; Indels 16; Gaps 6;

QY 25 SYDLTGKVMLLGDTGKCTCFLIQKDGAFLSGTFTATVGDIDFRNKVTVVDGVRVKLQIW 84
 Db 3 TYDLFKLLIGDSGVGKTCLLFRSEDAF-NTFTSTIGIDFKIRVELDGKKIKLQIW 61
 QY 85 DTAGQERFRSVTHAYYRDAQALLLYDITNKSFDNIRAWLTIHEHYAQRDVVIMLLGNK 144
 Db 62 DTAGQERFRIT-AYYRGAMGIMKV-DITNEKSFNKNWIRNIEEHASSDVERMILGNK 119
 QY 145 ADMSSERVISEGETLAREYGVPELETSAKTGMNVELAFALAKELKYRAGHQADEPSF 204
 Db 120 CDMNEKRVSKERGEKLAIDYGIKFLTSKSSINVEEAFITLARDIMTKLNKKNMNSL 179
 QY 205 QIRDYVE-----SQKKR--SSCCSFM 223
 Db 180 Q--EAVDKLSPKPKSQKKQLSFRCSLL 207
 RESULT 11
 US-08-718-270A-35
 ; Sequence 35, Application US/08718270A
 ; Patent No. 5910478
 ; GENERAL INFORMATION:
 ; APPLICANT: Hiavka, Joseph J.
 ; APPLICANT: Pincus, Matthew R.
 ; APPLICANT: No. 5910478le, John F.
 ; APPLICANT: Abajian, Henry B.
 ; APPLICANT: Kende, Andrew S.
 ; TITLE OF INVENTION: Peptidomimetics Inhibiting
 ; TITLE OF INVENTION: the Oncogenic Action of P21 Ras
 ; NUMBER OF SEQUENCES: 52
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
 ; STREET: 5370 Manhattan Circle, Suite 201
 ; CITY: Boulder
 ; STATE: Colorado

COUNTRY: US
 ZIP: 80303
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/718,270A
 FILING DATE: 20-SEP-1996
 CLASSIFICATION: 514
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/531,525
 FILING DATE: 21-SEP-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/004,091
 FILING DATE: 21-SEP-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Ferber, Donna M.
 REGISTRATION NUMBER: 33,878
 REFERENCE/DOCKET NUMBER: 78-95
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (303) 499-8080
 TELEFAX: (303) 499-8089
 INFORMATION FOR SEQ ID NO: 35:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 207 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ORIGINAL SOURCE:
 ORGANISM: Discopyge ommata
 US-08-718-270A-35

Query Match 42.3%; Score 486; DB 2; Length 207;

Best Local Similarity 48.1%; Pred. No. 2.8e-46;
 Matches 101; Conservative 44; Mismatches 49; Indels 16; Gaps 6;

QY 25 SYDLTGKVMLLGDTGKCTCFLIQKDGAFLSGTFTATVGDIDFRNKVTVVDGVRVKLQIW 84
 Db 3 TYDLFKLLIGDSGVGKTCLLFRSEDAF-NTFTSTIGIDFKIRVELDGKKIKLQIW 61
 QY 85 DTAGQERFRSVTHAYYRDAQALLLYDITNKSFDNIRAWLTIHEHYAQRDVVIMLLGNK 144
 Db 62 DTAGQERFRIT-AYYRGAMGIMKV-DITNEKSFNKNWIRNIEEHASSDVERMILGNK 119
 QY 145 ADMSSERVISEGETLAREYGVPELETSAKTGMNVELAFALAKELKYRAGHQADEPSF 204
 Db 120 CDMNEKRVSKERGEKLAIDYGIKFLTSKSSINVEEAFITLARDIMTKLNKKNMNSL 179
 QY 205 QIRDYVE-----SQKKR--SSCCSFM 223
 Db 180 Q--EAVDKLSPKPKSQKKQLSFRCSLL 207
 RESULT 12
 US-08-531-525-51
 ; Sequence 51, Application US/08531525
 ; Patent No. 5840683
 ; GENERAL INFORMATION:
 ; APPLICANT: Hiavka, Joseph J.
 ; APPLICANT: Pincus, Matthew R.
 ; APPLICANT: No. 5840683le, John F.
 ; APPLICANT: Abajian, Henry B.
 ; APPLICANT: Kende, Andrew S.
 ; TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action
 ; TITLE OF INVENTION: of P21 Ras
 ; NUMBER OF SEQUENCES: 52
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Greenlee and Winner, P.C.
 ; STREET: 5370 Manhattan Circle, Suite 201

; CITY: Boulder
; STATE: Colorado
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/531,525
; FILING DATE: 21-SEP-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/531,525
; FILING DATE: 21-SEP-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 37-94
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 51:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 198 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Canis familiaris
; US-08-531-525-51

Query Match 41.6%; Score 478.5; DB 2; Length 198;

Best Local Similarity 48.7%; Pred. No. 1.8e-45;
Matches 97; Conservative 36; Mismatches 59; Indels 7; Gaps 4;

QY 25 SYDLTKVMLLGGTGVGKTCFLIQFDGAFSLGTFATVGDIDFNKVVTVVGVVVKLIQIW 84
DB 4 TYDLLFKLLIGDSGVGKTCVLFPSDDAF-NTTFI-SIGIDFKIKTVELQGGKIKLIQIW 61
QY 85 DTAGQERFRSVTHAYYRDAQALLLLDYITNKSFFDNIRAWLTIHEIYAQRDVVIMLGNK 144
DB 62 DTAGQERFHTITTSYRGGANGIMLVYDITNGKSFENISKWLNRIDEHANEDVERMLLGNK 121
QY 145 ADMSSERVIRSEGETLAREYGVFPFLETSAGTKGMNVELAFATAKELKVRAGHQADPEPSF 204
DB 122 CDMDKRVVPKGGKGEIAREHGIRFFETSAGKVNINIEKAFLLAEDILRKT--PVKEPNS 179
QY 205 QIRDYVES---QKRRSQC 220
DB 180 ENVDISSGGGVGTGWSKCC 198

RESULT 13

US-08-718-270A-51
; Sequence 51, Application US/08718270A
; Patent No. 5910478
; GENERAL INFORMATION:
; APPLICANT: Hlavka, Joseph J.
; APPLICANT: Pincus, Matthew R.
; APPLICANT: No. 59104781e, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptidomimetics Inhibiting
; TITLE OF INVENTION: the Oncogenic Action of P21 Ras
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: US
; ZIP: 80303

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/718,270A
; FILING DATE: 20-SEP-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/531,525
; FILING DATE: 21-SEP-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/004,091
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 78-95
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 51:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 198 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Canis familiaris
; US-08-718-270A-51

Query Match 41.6%; Score 478.5; DB 2; Length 198;

Best Local Similarity 48.7%; Pred. No. 1.8e-45;
Matches 97; Conservative 36; Mismatches 59; Indels 7; Gaps 4;

QY 25 SYDLTKVMLLGGTGVGKTCFLIQFDGAFSLGTFATVGDIDFNKVVTVVGVVVKLIQIW 84
DB 4 TYDLLFKLLIGDSGVGKTCVLFPSDDAF-NTTFI-SIGIDFKIKTVELQGGKIKLIQIW 61
QY 85 DTAGQERFRSVTHAYYRDAQALLLLDYITNKSFFDNIRAWLTIHEIYAQRDVVIMLGNK 144
DB 62 DTAGQERFHTITTSYRGGANGIMLVYDITNGKSFENISKWLNRIDEHANEDVERMLLGNK 121
QY 145 ADMSSERVIRSEGETLAREYGVFPFLETSAGTKGMNVELAFATAKELKVRAGHQADPEPSF 204
DB 122 CDMDKRVVPKGGKGEIAREHGIRFFETSAGKVNINIEKAFLLAEDILRKT--PVKEPNS 179
QY 205 QIRDYVES---QKRRSQC 220
DB 180 ENVDISSGGGVGTGWSKCC 198

RESULT 14

US-08-531-525-10
; Sequence 10, Application US/08531525
; Patent No. 5840683
; GENERAL INFORMATION:
; APPLICANT: Hlavka, Joseph J.
; APPLICANT: Pincus, Matthew R.
; APPLICANT: No. 58406831e, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action
; TITLE OF INVENTION: of p21 Ras
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee and Winner, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado

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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/718,270A
FILING DATE: 20-SEP-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/531,525
FILING DATE: 21-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,091
FILING DATE: 21-SEP-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 78-95
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Arabidopsis thaliana
US-08-718-270A-10

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Query Match	41.68;	Score	478.5;	DB 2;	Length	215;			
Best Local Similarity	45.18;	Pred. No.	2e-45;						
Matches	96;	Conservative	50;	Mismatches	54;	Indels	13;	Gaps	6;
Qy	19	SPP--CSPSVDLTCKVMLGDTGVGKTCFLQFKDGAFLSGTFTIATGIDFRNKVVVDG	76						
Db	3	APPARADYDYLKLLLLIGDSVGKCLLLRFSGDSFTT-SFTTIGIDFKIRFIELDG	61						
Qy	77	VRVKLIQWDTAGQRRFRSVTHAYYRDQAQALLLLVDITNKSFDNIRAWLTIHEYAQORD	136						
Db	62	KRIKLIQWDTAGQER-RTITTYAYRGAMILLVVDVDTDESSFNIRNNWRIEQHASNV	120						
Qy	137	VIMLLGNKADM-SSEVRTRSEDGTTLAREYGVPFLETSAKTGMNVLEAFLAIKELKYR-	194						
Db	121	NKLIIVGNKADMDESKRAVPTAKGQALADEYGIKFFETSAKTNLNVVEEYFSGIRDIKORL	180						
Qy	195	--AGHQADEPSPQIRDYVES-----QKKRSCC	220						
Db	181	SDTDSRAPPATIKISOTDOAGAGAOATOKSACC	213						

Search completed: January 16, 2003, 06:30:53
Job time : 26 secs

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: January 16, 2003, 06:32:26 ; Search time 20 seconds
(without alignments)
221.645 Million cell updates/sec

Title: US-09-817-199A-2

Perfect score: 1150

Sequence: 1 MTGTPGAVATRDGEAPERSP.....FOIRDYVESQKRRSCCSFM 223

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 120991 seqs, 19878514 residues

Total number of hits satisfying chosen parameters: 120991

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published_Applications_AA:*

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*

3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*

4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*

5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*

6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*

7: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*

8: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*

9: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*

10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*

11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*

12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*

13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*

14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1150	100.0	223	10	US-09-817-199A-2
2	1144	99.5	226	9	US-09-764-868-684
3	1133	98.5	222	9	US-09-764-868-1106
4	1081	94.0	223	10	US-09-817-199A-4
5	977	85.0	191	10	US-09-794-257-14
6	977	85.0	191	12	US-10-051-986-3
7	547	47.6	106	10	US-09-867-550-1812
8	535	46.5	139	9	US-09-764-868-688
9	501	43.6	207	10	US-09-794-257-8
10	500	43.5	190	10	US-09-822-860-5
11	498	43.3	218	10	US-09-925-300-1571
12	497.5	43.3	162	10	US-09-834-765-766
13	483	42.0	246	10	US-09-925-302-534
14	472	41.0	201	10	US-09-967-736-8
15	468	40.7	201	10	US-09-967-736-3
16	466	40.5	198	10	US-09-794-257-16
17	466	40.5	198	10	US-09-945-173-5
18	466	40.5	198	10	US-09-972-529-4
19	458.5	39.9	222	10	US-09-820-003A-4

20	448.5	39.0	212	10	US-09-350-874-67	Sequence 67, Appl
21	435	37.8	401	9	US-09-764-868-701	Sequence 701, App
22	429.5	37.3	198	9	US-09-764-868-1120	Sequence 1120, Ap
23	429	37.3	212	10	US-09-817-198A-2	Sequence 2, Appli
24	427.5	37.2	212	10	US-09-817-198A-4	Sequence 4, Appli
25	416	36.2	218	10	US-09-817-198A-5	Sequence 5, Appli
26	413.5	36.0	307	9	US-09-764-868-1100	Sequence 1100, Ap
27	413.5	36.0	312	10	US-09-925-302-783	Sequence 783, App
28	386	33.6	832	10	US-09-834-765-2	Sequence 2, Appli
29	377.5	32.8	222	9	US-09-764-868-1112	Sequence 1112, Ap
30	377.5	32.8	225	9	US-09-764-868-692	Sequence 692, App
31	373.5	32.5	213	10	US-09-794-257-5	Sequence 5, Appli
32	365	31.7	208	9	US-10-108-605-45	Sequence 45, Appl
33	364.5	31.7	624	10	US-09-834-765-5	Sequence 5, Appli
34	364.5	31.7	625	10	US-09-834-765-762	Sequence 762, App
35	360.5	31.3	168	10	US-09-834-765-765	Sequence 765, App
36	360	31.3	239	10	US-09-925-301-1077	Sequence 1077, Ap
37	359	31.2	217	10	US-09-988-974-3	Sequence 3, Appli
38	358.5	31.2	213	10	US-09-988-974-8	Sequence 8, Appli
39	352.5	30.7	217	10	US-09-925-300-1364	Sequence 1364, Ap
40	350	30.4	201	10	US-09-822-860-2	Sequence 2, Appli
41	349.5	30.4	161	10	US-09-834-765-763	Sequence 763, App
42	344.5	30.0	211	12	US-10-051-986-6	Sequence 6, Appli
43	339	29.5	216	10	US-09-945-173-10	Sequence 10, Appl
44	320.5	27.9	222	9	US-09-764-868-1121	Sequence 1121, Ap
45	319.5	27.8	157	10	US-09-834-765-764	Sequence 764, App

ALIGNMENTS

RESULT 1

US-09-817-199A-2

; Sequence 2, Application US/09817199A

; Patent No. US20020142380A1

; GENERAL INFORMATION:

; APPLICANT: SHAO, Wei et al.

; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,

; NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE

; TITLE OF INVENTION: PROTEINS, AND USES THEREOF

; FILE REFERENCE: CLO01187

; CURRENT APPLICATION NUMBER: US/09/817.199A

; CURRENT FILING DATE: 2001-03-27

; NUMBER OF SEQ ID NOS: 25

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 223

; TYPE: PRT

; ORGANISM: Human

US-09-817-199A-2

Query Match 100.0%; Score 1150; DB 10; Length 223;
Best Local Similarity 100.0%; Pred. No. 3.5e-109;
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MTGTPGAVATRDGEAPERSPPSPSYDLTGKVMLLGDTGVGKTCFLIOFKDGAFLSGTFI	60
Db	1	MTGTPGAVATRDGEAPERSPPSPSYDLTGKVMLLGDTGVGKTCFLIOFKDGAFLSGTFI	60
Qy	61	ATVGIDFENKVVTVGVRVKLIQIWDTAGQERFRSVTHAYYRDAQALLLLYDITNKSFPD	120
Db	61	ATVGIDFENKVVTVGVRVKLIQIWDTAGQERFRSVTHAYYRDAQALLLLYDITNKSFPD	120
Qy	121	IRAWLTIHEYAQRDVVIMLLGNKADMSRVSDEGTALREYGVFLETSAKTGMNV	180
Db	121	IRAWLTIHEYAQRDVVIMLLGNKADMSRVSDEGTALREYGVFLETSAKTGMNV	180
Qy	181	ELAFIATAKELKYRAGHQADPEFSQIRDYVESQKRRSCCSFM	223
Db	181	ELAFIATAKELKYRAGHQADPEFSQIRDYVESQKRRSCCSFM	223

RESULT 2

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US-09-764-868-684
; Sequence 684, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 684
; LENGTH: 226
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-868-684

Query Match          99.5%; Score 1144; DB 9; Length 226;
Best Local Similarity 99.6%; Pred. No. 1.4e-108;
Matches 222; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTGTPGAVATRDGEAPERSPPSPSYDLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFI 60
Db 4 MTGTPGAVATRDGEAPERSPPSPSYDLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFI 63
QY 61 ATVGIDFRNKVVTVDGVVRVKLQIWDTAGOERFRSVTHAYYRDAQALLLYDITNKSSFDN 120
Db 64 ATVGIDFRNKVVTVDGVVRVKLQIWDTAGOERFRSVTHAYYRDAQALLLYDITNKSSFDN 123
QY 121 IRAWLTEIHEYAQRDVVIMLLGNKADMSSEIRVEDGETFLAREYGVPPFLETSAKTGMNV 180
Db 124 IRAWLTEIHEYAQRDVVIMLLGNKADMSSEIRVEDGETFLAREYGVPPFLETSAKTGMNV 183
QY 181 ELAFLATAKELKYRAGHQADEPSFQIRDYVESQKKRSCCSF 223
Db 184 ELAFLATAKELKYRAGHQADEPSFQIRDYVESQKKRSCCSF 226

RESULT 3
US-09-764-868-1106
; Sequence 1106, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1106
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; LOCATION: (67)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (210)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-868-1106

Query Match          98.5%; Score 1133; DB 9; Length 222;
Best Local Similarity 99.1%; Pred. No. 1.8e-107;
Matches 220; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 TGTPGAVATRDGEAPERSPPSPSYDLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFFIA 61
Db 1 TGTPGAVATRDGEAPERSPPSPSYDLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFFIA 60

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QY 62 TVGIDFRNKVVTVDGVVRVKLQIWDTAGOERFRSVTHAYYRDAQALLLYDITNKSSFDNI 121
Db 61 TVGIDFNKVVTVDGVVRVKLQIWDTAGOERFRSVTHAYYRDAQALLLYDITNKSSFDNI 120
QY 122 RAWLTEIHEYAQRDVVIMLLGNKADMSSEIRVEDGETFLAREYGVPPFLETSAKTGMNV 181
Db 121 RAWLTEIHEYAQRDVVIMLLGNKADMSSEIRVEDGETFLAREYGVPPFLETSAKTGMNV 180
QY 182 LAFLATAKELKYRAGHQADEPSFQIRDYVESQKKRSCCSF 223
Db 181 LAFLATAKELKYRAGHQADEPSFQIRDYVESQKKRSCCSF 222

RESULT 4
US-09-817-199a-4
; Sequence 4, Application US/09817199a
; Patent No. US20020142380A1
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001187
; CURRENT APPLICATION NUMBER: US/09/817,199a
; CURRENT FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-817-199a-4

Query Match          94.0%; Score 1081; DB 10; Length 223;
Best Local Similarity 93.7%; Pred. No. 3.4e-102;
Matches 209; Conservative 6; Mismatches 8; Indels 0; Gaps 0;

QY 1 MTGTPGAVATRDGEAPERSPPSPSYDLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFI 60
Db 1 MTGTPGAVATRDGEAPERSPPSPSYDLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFI 60
QY 61 ATVGIDFRNKVVTVDGVVRVKLQIWDTAGOERFRSVTHAYYRDAQALLLYDITNKSSFDN 120
Db 61 ATVGIDFRNKVVTVDGVVRVKLQIWDTAGOERFRSVTHAYYRDAQALLLYDITNKSSFDN 120
QY 121 IRAWLTEIHEYAQRDVVIMLLGNKADMSSEIRVEDGETFLAREYGVPPFLETSAKTGMNV 180
Db 121 IRAWLTEIHEYAQRDVVIMLLGNKADMSSEIRVEDGETFLAREYGVPPFLETSAKTGMNV 180
QY 181 ELAFLATAKELKYRAGHQADEPSFQIRDYVESQKKRSCCSF 223
Db 181 ELAFLATAKELKYRAGHQADEPSFQIRDYVESQKKRSCCSF 223

RESULT 5
US-09-794-257-14
; Sequence 14, Application US/09794257
; Patent No. US20020009804A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020009804A1e1
; TITLE OF INVENTION: Human G-Proteins
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 191
; TYPE: PRT
; ORGANISM: homo sapiens

```


US-09-794-257-14

Query Match 85.0%; Score 977; DB 10; Length 191;
Best Local Similarity 100.0%; Pred. No. 9.5e-92;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 33 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNKVVTVDCGVRVKLQIWDTAGQERF 92
Db 1 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNKVVTVDCGVRVKLQIWDTAGQERF 60
QY 93 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 152
Db 61 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 120
QY 153 IRSDGETLAREYGVPELETSAKTMNMVELAFLAIAKELKYRAGHQADEPSFQIRDYVES 212
Db 121 IRSDGETLAREYGVPELETSAKTMNMVELAFLAIAKELKYRAGHQADEPSFQIRDYVES 180
QY 213 QKKRSSCCSFM 223
Db 181 QKKRSSCCSFM 191

RESULT 6

US-10-051-986-3
; Sequence 3, Application US/10051986
; Patent No. US20020146770A1
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; Tang, Y. Tom
; Lal, Preeti
; Guegler, Karl J.
; Corley, Neil C.
; Patterson, Chandra
; Batra, Sajeev
; Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/051,986
; FILING DATE: 15-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: UCMCL5T01

CLONE: 1528559
; SEQUENCE DESCRIPTION: SEQ ID NO: 3 :
US-10-051-986-3

Query Match 85.0%; Score 977; DB 12; Length 191;
Best Local Similarity 100.0%; Pred. No. 9.5e-92;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 33 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNKVVTVDCGVRVKLQIWDTAGQERF 92
Db 1 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNKVVTVDCGVRVKLQIWDTAGQERF 60
QY 93 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 152
Db 61 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 120
QY 153 IRSDGETLAREYGVPELETSAKTMNMVELAFLAIAKELKYRAGHQADEPSFQIRDYVES 212
Db 121 IRSDGETLAREYGVPELETSAKTMNMVELAFLAIAKELKYRAGHQADEPSFQIRDYVES 180
QY 213 QKKRSSCCSFM 223
Db 181 QKKRSSCCSFM 191

RESULT 7

US-09-867-550-1812
; Sequence 1812, Application US/09867550
; Patent No. US20020082206A1
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Mehraban, Fuad,
; APPLICANT: Conley, Pamela
; APPLICANT: Law, Debbie
; APPLICANT: Topper, James
; TITLE OF INVENTION: No. US20020082206A1 Polynucleotides from Atherogenic Cells a
; FILE REFERENCE: 21402-013 (Cura-313)
; CURRENT APPLICATION NUMBER: US/09/867,550
; CURRENT FILING DATE: 2001-09-20
; PRIOR APPLICATION NUMBER: USSN 60/208,427
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 2125
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1812
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-867-550-1812

Query Match 47.6%; Score 547; DB 10; Length 106;
Best Local Similarity 100.0%; Pred. No. 1.6e-48;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNKVVTVDCGVRVKLQIWDTAGQERF 92
Db 1 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNKVVTVDCGVRVKLQIWDTAGQERF 60
QY 93 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 138
Db 61 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 106

RESULT 8

US-09-764-868-688
; Sequence 688, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17

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; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 688
; LENGTH: 139
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-868-688
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Query Match 46.5%; Score 535; DB 9; Length 139;
Best Local Similarity 71.5%; Pred. No. 3.8e-47;
Matches 98; Conservative 19; Mismatches 20; Indels 0; Gaps 0;

QY 84 WDTAGQERFRSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTHEIHEYAQRDVMILGN 143
Db 1 WDTAGQERFRSVTHAYYRDAHALLLYDITNKASFDNTQAWLTHEIHEYAQRDVALMLGN 60

QY 144 KADMSSEVRIRSDGETLAREYGVFPLETSAGTGMNVELAFIAIAKELKYRAGHQADEPS 203
Db 61 KVDASHERVVKREDGKLAKEYGLPFMETSAKTGLNVDLAFIAIAKELKQSMKAPSEPR 120

QY 204 FOIRDYVESQKRSSCSF 220
Db 121 FRLHDYVKREGGASCC 137
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```
RESULT 9
US-09-794-257-8
; Sequence 8, Application US/09794257
; Patent No. US20020009804A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020009804A1e1
; TITLE OF INVENTION: Human G-Proteins
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 207
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-794-257-8
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Query Match 43.6%; Score 501; DB 10; Length 207;
Best Local Similarity 49.2%; Pred. No. 1.9e-43;
Matches 98; Conservative 40; Mismatches 59; Indels 2; Gaps 2;

QY 25 SYDLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFIATVGDIFRNKVVTVYDGVVRVQLQIW 84
Db 4 TYDLFKLLIGDSGVGKTCFLFRSEDAF-NTTFISTIGIDFKIRTVELDGKKIKLQIW 62

QY 85 DTAGQERFRSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTHEIHEYAQRDVMILGNK 144
Db 63 DTAGQERFRITTAAYRGAMGIMLVYDITNEKSFNKNWIRNEEHASSDVERMILGNK 122

QY 145 ADMSSERVIRSEGETLAREYGVFPLETSAGTGMNVELAFIAIAKELKYRAGHQADEPS 203
Db 123 CDMDKQVSKERGEKLAIDYGIKFELETSKASSANVEAFITLARDIMTKLRKMNDSNS 182

QY 204 FOIRDYVESQKRSSCSF 222
Db 183 AGAGGPVKITENRSKKTsf 201
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RESULT 10
US-09-822-860-5
; Sequence 5, Application US/09822860
; Patent No. US20020146795A1
; GENERAL INFORMATION:
```

```
; APPLICANT: ZHU, Shiaooping et al.
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: C0001214
; CURRENT APPLICATION NUMBER: US/09/822,860
; CURRENT FILING DATE: 2001-04-02
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 190
; TYPE: PRT
; ORGANISM: Discopyge ommata
US-09-822-860-5
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Query Match 43.5%; Score 500; DB 10; Length 190;
Best Local Similarity 50.3%; Pred. No. 2.1e-43;
Matches 96; Conservative 42; Mismatches 51; Indels 2; Gaps 2;

QY 27 DLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFIATVGDIFRNKVVTVYDGVVRVQLQIWDT 86
Db 1 DYLFKLLIGDSGVGKTCFLFRSEDAF-NTTFISTIGIDFKIRTVELDGKKIKLQIWDT 59

QY 87 AGQERFRSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTHEIHEYAQRDVMILGNKAD 146
Db 60 AGQERFRITTAAYRGAMGIMLVYDITNEKSFNKNWIRNEEHASSDVERMILGNKCD 119

QY 147 MSSERVIRSEGETLAREYGVFPLETSAGTGMNVELAFIAIAKELKYRAGHQADEPSQ- 205
Db 120 MNEKQVSKERGEKLAIDYGIKFELETSKASSANVEAFITLARDIMTKLRKMNENSQ 179

QY 206 IRDYVESQKR 216
Db 180 AVDKLKSPPK 190
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RESULT 11
US-09-925-300-1571
; Sequence 1571, Application US/09925300
; Patent No. US20020151681A1
; GENERAL INFORMATION:
; APPLICANT: Steve Ruben,
; APPLICANT: Craig Rosen,
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCI/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1571
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-300-1571
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Query Match 43.3%; Score 498; DB 10; Length 218;
Best Local Similarity 48.5%; Pred. No. 4e-43;
Matches 99; Conservative 36; Mismatches 63; Indels 6; Gaps 3;

QY 20 PPCSPSYDLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFIATVGDIFRNKVVTVYDGVVR 79
Db 18 PMAKTYDILLFKLLIGDSGVGKTCVLFPSDDAF-NTTFISTIGIDFKIRTVELDGKKI 76

QY 80 KQIWDTAGQERFRSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTHEIHEYAQRDVM 139
Db 77 KQIWDTAGQERFHTTTSYRGAMGIMLVYDITNGKSFENISKWIRNEEHANEDVERM 136

QY 140 LLGNKADMSSERVIRSEGETLAREYGVFPLETSAGTGMNVELAFIAIAKELKYRAGHQ 199
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```
Db 2 NPEYDLFKLLIGDSGVGKSCLLLRFDADTY-TESYSTIGVDFKIRTIELDGKTIKQ 60
QY 83 IWDTAGQERFRSHTAYYRDAQALLLLYDITNKSSFDNIRAWLITEIHEYAQRDVVIMLIG 142
Db 61 IWDTAGQERFRVTSYYRGAHGIIWVYDVTQESYANKWLQELIDRYASENVANKLLVG 120
QY 143 NKADMSSESRVIRSEGETIARVGYVPFLETSAKTGMNVELAFATAKELKYRAGHOA--- 199
Db 121 NKSDLTTKKVVDNTTAKFADSLGIPFLETSAKNATNVQAFMTMAAEIKKRMGPGAASG 180
QY 200 -DEPSFQIRDYVESQKRRSSCC 220
Db 181 GERPNLKI-DSTPVKSASGGCC 201

RESULT 15
US-09-967-736-3
; Sequence 3, Application US/09967736
; Patent No. US20020103340A1
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; Lal, Preeti
; Corley, Neil C.
; Shah, Purvi
; TITLE OF INVENTION: RAB PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/967,736
; FILING DATE: 28-Sep-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/154,602
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0367 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 201 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: L1VRUT04
; CLONE: 2514506
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-967-736-3

Query Match 40.7%; Score 468; DB 10; Length 201;
Best Local Similarity 42.1%; Pred. No. 3.9e-40;
Matches 85; Conservative 53; Mismatches 58; Indels 6; Gaps 3;
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```
QY 23 SPSYDLTGKVMILGDPGVGKTCFLIQKDGAFLSGTFIATVGIDFRNKVVTVDGVRVKLQ 82
Db 2 NPEYDLFKLLIGDSGVGKSCLLLRFDADTY-TESYSTIGVDFKIRTIELDGKTIKQ 60
QY 83 IWDTAGQERFRSHTAYYRDAQALLLLYDITNKSSFDNIRAWLITEIHEYAQRDVVIMLIG 142
```

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Db 61 IWDTAGQERFRVTSYYRGAHGIIWVYDVTQESYANKWLQELIDRYASENVANKLLVG 120
QY 143 NKADMSSESRVIRSEGETIARVGYVPFLETSAKTGMNVELAFATAKELKYRAGHOA--- 199
Db 121 NKSDLTTKKVVDNTTAKFADSLGIPFLETSAKNATNVQAFMTMAAEIKKRMGPGAASG 180
QY 200 -DEPSFQIRDYVESQKRRSSCC 220
Db 181 GERPNLKI-DSTPVKPAGGGCC 201
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Search completed: January 16, 2003, 06:37:29
Job time : 21 secs